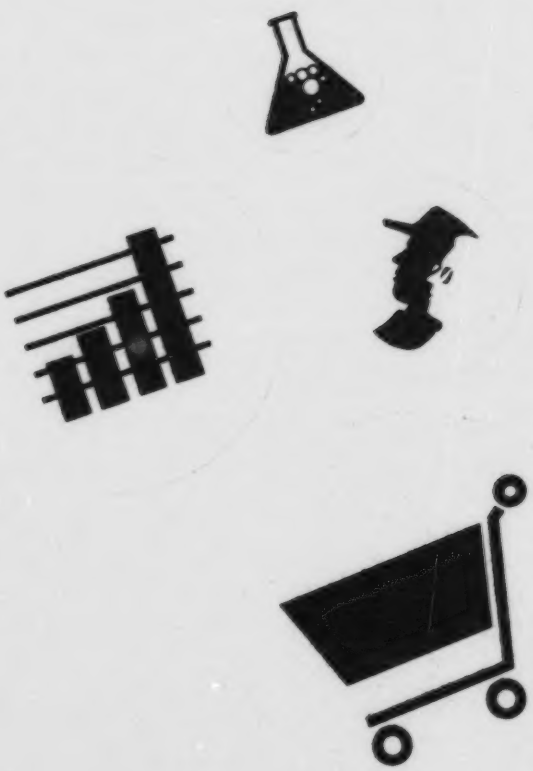
ADF

Saskatchewan Agriculture
Development Fund

OCTOBER 89 - APRIL 91

PROGRESS REPORT



91-06094/

Table of contents

Minister's message 2

Background 2

Message from the Chairman of the ADF Board of Directors 3

Research 4

Development 5

Demonstration 6

Food 7

Our Commitment 8

Other Funding Sources 9

How to use this report 10

Project Listing 11

Minister's Message

**Grant Devine, Premier,
Minister of Saskatchewan
Agriculture and Food**

As Minister of Saskatchewan Agriculture and Food, I am pleased to present the fifth progress report for the Saskatchewan Agriculture Development Fund (ADF).

Established in 1985, the ADF has proven to be a leader in providing funding for agricultural research, development, demonstration and food projects throughout Saskatchewan.

On October 1, 1989, the Government of Saskatchewan expanded its commitment to ADF through **The Agriculture Development Fund Act.** It established the ADF as a corporate body operating under the auspices of a Board of Directors. The Board, comprised of members of the agri-food industry, provides the ADF with valuable input from producers and industry representatives.

This new legislation has also enabled the ADF to more efficiently manage joint projects with industry and other government agencies. It also provides the ADF with authority to administer funds for other agencies. In addition, the ADF can now collect royalties on intellectual property arising from any project it funds. This money can then be reinvested in research, development, demonstration, and food projects in the agriculture industry or used as incentive to encourage people to commercialize their research and development.

The success of ADF is reflected in the number of people who have successfully completed projects. These people represent a varied cross-section of Saskatchewan's agricultural industry. Their initiatives in diversification, commercialization, and food processing will help keep Saskatchewan's agri-food industry competitive in increasingly complex global markets.

I express my sincere gratitude to the ADF Board of Directors, committees and staff for their hard work and dedication. I look forward to continued success for the Agriculture Development Fund.

Background

The Saskatchewan Agriculture Development Fund (ADF) is the provincial funding agency for agriculture and food-related research, development and demonstration projects. The ADF was established in 1985 and became a corporate entity in October, 1989.

ADF is under the direction of the Minister of Saskatchewan Agriculture and Food. It is governed by a Board of Directors comprised of representatives from the agri-food sector and is chaired by the Deputy Minister of Saskatchewan Agriculture and Food.

Over the past five-and-a-half years, the ADF has funded initiatives in areas such as crops and forages, soils, livestock, land improvement, engineering, marketing, new product development and processing.

Individuals or organizations with an idea that will benefit agriculture can apply for funding. Applications are processed four times a year: January 1, April 1, July 1, October 1. Demonstration projects have an additional application date of March 1. Food project applications requesting $10,000 or less of ADF funding are accepted monthly.

Project applications are reviewed by appropriate technical committees. The applications, together with the committees' evaluations and recommendations, are sent to the ADF Board of Directors for final review and a funding decision. Applicants of approved projects are then offered a project contract.

Message from the Chairman of the ADF Board of Directors

Stuart Kramer

Stuart Kramer, Chairman
Deputy Minister of
Saskatchewan Agriculture
and Food

Since its establishment in 1985, the ADF has become a vital support for Saskatchewan-based initiatives in agricultural research, development, demonstration, and food projects. More than 1760 projects have been approved, resulting in an expenditure of more than $70 million dollars: 458 research projects worth $32.3 million; 257 development projects worth about $17 million; 984 demonstration projects worth $9.2 million; and, more recently, 41 food projects worth $563,007.

Under the Strategic Funding Agreement, $11.6 million was disbursed to the University of Saskatchewan for a variety of agricultural research projects. A long-term commitment of $40 million was made towards construction of the new agricultural sciences complex located on the University of Saskatchewan campus. In addition, about $40 million was expended on irrigation development. And, in 1989, ADF entered into a five-year, $9-million agreement with AgWest Biotech Inc. for biotechnology research suitable for commercial applications.

From October 1, 1989 to March 31, 1991, the ADF Board of Directors reviewed 534 applications for project funding. Of that number, 301 were approved, covering a wide range of initiatives.

Applications are reviewed by technical committees to ensure funded projects will be of practical value to Saskatchewan producers. It is important to note that these funding decisions are made by a Board of Directors which includes individuals who have experience in the agri-food industry.

The present ADF Board of Directors is comprised of 10 members and includes: producers, owners of agricultural businesses, the western region Director General of research for Agriculture Canada, and myself.

The success that ADF has achieved can be measured by the people who are involved in our many projects. We provide the funding for research, development, demonstration and food projects, but the individuals who apply for that funding are the true success stories. They have taken the initiative to explore new ways to help Saskatchewan's agriculture and food industry remain competitive and profitable. We are proud to assist them.

Brian Petracek
Vice-Chairman

Don Baxter

Gordon Dorrell

Garvin Hanley

Wanda Mann

Brenda Martin

Julie Paquette

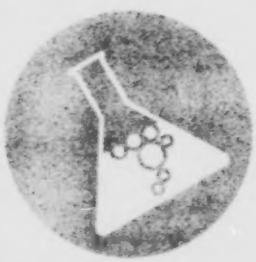
Dick Richards

Charles Thompson

Research

The ADF is helping to secure Saskatchewan's farming future through its commitment to research, development and diversification. This commitment will assist Saskatchewan to remain competitive in the global agricultural marketplace. The ADF funds individual projects and programs undertaken by researchers in both the public and private sectors. A number of the ADF's research projects are joint efforts between farm organizations, producer groups, and agri-business.

The ADF provides funding for research activities at the University of Saskatchewan through the Strategic Research Program, as well as through individual projects. The Strategic Research Program targets the following areas: soils and water, animal production, agricultural economics, applied microbiology and food science, horticultural science, animal biotechnology, crops development and value-added processing of meats and crops.



ADF funding supports a variety of livestock projects that are designed to develop and improve breed quality, reproduction and production efficiency, and disease control.

In biotechnology research, ADF-funded projects are identifying and developing micro-organisms as pest control agents, producing vaccines to combat common cattle and swine diseases, promoting animal growth and production, and developing new and improved crop varieties. Researchers at the Crop Development Centre in Saskatchewan, which is funded by the ADF, recently produced a new variety of durum and two new varieties of barley.

Development

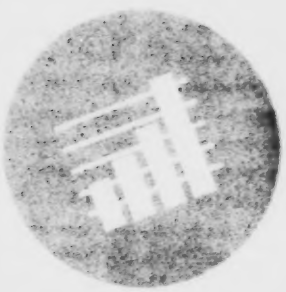
The ADF Development program assists the Saskatchewan agri-food industry to recognize and to realize opportunities for improved products, markets, processes and services. Development projects help the industry to adapt to an ever changing global economy.

In the past year, the ADF provided funding for a wide variety of development projects. These projects have stimulated marketing and promotion of new products, evaluated the feasibility of new commercial operations, and studied new production ideas.

In crops, ADF funded projects to identify production and marketing opportunities for crops such as seed potatoes, quinoa, dried flowers, and sunola. Other crop projects included processing opportunities for alfalfa, canola meal, wild rice, and crop screenings.

In livestock, ADF provided funding of projects concerned with the development and commercialization of veterinary vaccines and systems for improved animal health. Other livestock projects included improved financial management systems for beef and swine producers.

In the area of human resources, ADF provided Saskatchewan's funding share for federal/ provincial Farm Management Initiatives. Projects included: marketing, risk management, goal-oriented planning, estate planning, crop clubs, and helping farm families develop new skills in order to meet the changing farm economy and rural environment. Funding was also provided to increase youth awareness of the agri-food industry, and included the production of teacher packages used in Agribition's Agri-Ed Showcase.



Demonstration

The ADFdemonstration program takes laboratory research into the fields where practical application results can be measured. On-farm demonstrations help introduce new developments and provide farmers with an opportunity to view or have hands-on experience with the latest technological advances. Demonstration funding is also available for tours, workshops, videos, seminars, and publications which support the transfer or display of agricultural information and technology.

Many demonstration projects are joint efforts between the ADF, producer groups, agri-business, and farmers. Major current projects include: cereal and oilseed variety trials, forage variety trials, the federal provincial Save Our Soils (SOS) program, and new grazing technologies.

In soils and crops, dryland bean production, organic crop production, fertilizer use, and soil conservation and reclamation methods are being explored throughout the province. Other projects include: management of native grasses, grass seed production, practical forage production, rolling of lentils to increase yield, biological weed control methods, crop rotation practices, and seed bed compaction and the use of air seeders.

In livestock, ADF-funded demonstration projects include: replacement heifer management, livestock production techniques, artificial insemination, disease control, the use of chaff as an alternate feed source, feed ration balancing, pastureland management, and the evaluation of various grazing systems. Currently, a new province-wide grazing technology transfer project is being developed with ADF funding support.

During the period of October, 1989 to April 1, 1991, the ADF provided funding for approximately 500 demonstration sites throughout Saskatchewan.

Food

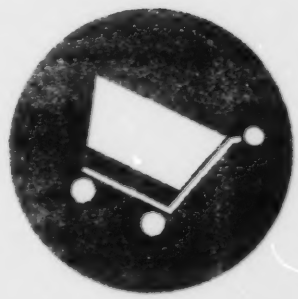
To encourage further diversification and development of Saskatchewan's agri-food industry, the ADF has initiated a funding program to assist food processors and supporting services. Program funding is available for research and development of products and markets, food processing technology, and food advisory services.

An ADF Small Food Project Program has also been established for new processing projects requesting $10,000 or less in ADF funding. Applications can be made monthly, with the duration of the project not to exceed one year.

In addition, the ADF continues to support projects that promote value-added activity, such as the Saskatchewan Foodtalk Program which provides extension services to the food processing industry.

Since July, 1990, the ADF has funded 41 food projects worth $563,007. Projects included wild rice, high bush cranberry products, premixed gluten-free baking flour, bannock mix, sweet basil, and package or label design.

Individuals, companies, co-operatives, or associations interested in value-added processing of agricultural commodities can apply for ADF Food project funding.



Our Commitment

Environment and Sustainable Agriculture

As conservation awareness and concern for the environment increases, the need and demand for new, positive farming alternatives have become prevelant. Projects in this area, being funded by the ADF included: a biological control program, various soil conservation programs, development and marketing of microbial bio-fertilizers, organic food production, and improved animal care.

Economic and Regional Development Agreement (ERDA)

The Saskatchewan Agriculture Development Fund has funded and administered about 112 research, development, and technology transfer projects through the Canada/ Saskatchewan ERDA Subsidiary Agreement on Agriculture Development.

This five-year agreement was designed to: encourage and promote extended crop rotations and the adoption of new crops and crop technologies, develop and improve the adopting of livestock production technologies and practices, extend and improve soil conservation, enhance the development of Saskatchewan's irrigation potential, and to support and strengthen agriculture's human resources.

Initiated in 1984, final ERDA financial transactions were completed March 31, 1991.

Many projects that began under ERDA continue to be funded by the ADF. A number of these projects have resulted in significant federal/provincial agreements, including the Soil Conservation Agreement, and Farm Management Initiatives.

Final project reports are available from the Agriculture Development Fund.

Commercialization

The ADF is committed to the commercialization of technologies and products that result from past and present research and development projects. This encompasses all aspects of the marketing process.

Currently, ADF is assisting in the commercialization of a number of products, including: flaxseed oil as a concrete preservative, canola oil as dust suppressant, glyphosate (generic Roundup), straw particle board, an ethanol plant, and the Conserva-Pak Seeder.

Diversification

Diversifying the farm economy is vital to Saskatchewan's agricultural industry and to the economic well-being of the province as a whole.

ADF is a major participant in the move to diversify, and is funding a number of important diversification projects. These include: production of Arctic charr and grayling; cage-rearing of rainbow trout; ostrich, lynx and merino sheep ranching; game farming; blueberry and saskatoon berry production and marketing; pinto, lupin, and great northern dry bean production; grass seed production; orchard production of fruit trees; vegetable, garlic, and savory herbs production; grain corn; quinoa; and the intercropping of peas and canola.

Other Funding Sources

Cattle Marketing Deductions Fund

The Cattle Marketing Deducations Fund (CMDF), administered through the Livestock Branch of Saskatchewan Agriculture and Food, supports research and the promotion of beef and beef products in the province.

Funds are accumulated through a $1 check-off or levy for each animal sold in Saskatchewan.

During 1989-90, the Cattle Marketing Deductions Fund collected approximately $1,100,000. The cattle check-off is a voluntary deduction. Producers may request a refund by providing proof of livestock sales.

Horned Cattle Fund

The Horned Cattle Fund (HCF), administered through the Livestock Branch of Saskatchewan Agriculture and Food, promotes research and development in the livestock industry. Funds are collected by deducting $2 for each animal with horns that is offered for sale in the province.

During 1989-90, the Horned Cattle Fund collected approximately $215,000. The Fund also continued to support research into beef herd management, and pasture and forage use on its beef herd in Melfort. Expenses incurred by this research project are paid from the sale of finished cattle.

How to use this report

This report provides a brief summary of all agricultural research, development, demonstration, and food activities funded in Saskatchewan from October 1, 1989 to March 31, 1991.

Project information has been divided into Research, Development, Demonstration, and Food. These sections have been subdivided into the following areas: livestock, engineering, irrigation, economics, crops and forages, extension, processing, new product development, marketing, soils and other.

Explanation of Codes

A coding system has been used to simplify the listing of project information. The codes are as follows:

ADF - Agriculture Development Fund
ERD - Economic and Regional Development Agreement
SAR - Saskatchewan Agricultural Research Fund
AWB - AgWest Biotech Inc.
SOA - Soil Conservation Agreement
COM - Commercialization
FOI - Food Industry
***** - Indicates a final report is available

Example Project Listing:

RESEARCH
(Project Type)

Title/Objective/Project No.	Contractor/Institution	Funding Agency/ Project Length	Funding
Agriculture (Subject Area)	B. Weighill (Contractor)	Two Years	18,436
	Saskatchewan Alfalfa	(Length of Project)	(Funds paid
ERD-R-0244 (Project Number)	Seed Producers (Institution)	80,000	Oct. 1, 1989 to April 1, 1991
	Carrot River (Address)		
Control of Chalkbrood and Other Fungal Problems in Leafcutter Bees (Project Title)			
maintain a viable alfalfa seed industry by conducting research on chalkbrood species and other fungi associated with leafcutter bees; develop new methods for the control of fungi (Brief project objective)			

DEMONSTRATION

Title/Objective/Project No.	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
Barley and Oats			
* **ADF-D-0589**	D. Cubbon (Project Manager)	ADF (Funding Agency)	110
BARLEY VARIETAL TRIAL	A. Ehle (Applicant)	One Year	
test barley varieties under field conditions to see how they perform in District #36	A. Ehle Farm (Company)	518	
	Pierceland (Address)		
	District #36 (Extension Agrologist District)		

Project Listings

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
APICULTURE - HONEY BEES, OTHERS			
* ERD-R-0244 2.3-13 CONTROL OF CHALKBROOD AND OTHER FUNGAL PROBLEMS IN LEAFCUTTER BEES maintain a viable alfalfa seed industry by conducting research on chalkbrood species and other fungi associated with leafcutter bees; develop new methods for the control of fungi	B. Weighill Saskatchewan Alfalfa Seed Producers Carrot River	ERDA Two Years 80,000	18,436
ADF-R-0424 LEAFCUTTER BEE PRODUCTIVITY - A COMPARISON OF NESTING MATERIAL develop information regarding the advantages and disadvantages of each nest type in order that new and existing producers can make an informed decision when investing in equipment	D. Getz Saskatchewan Alfalfa Seed Producers Birch Hills	ADF Two Years 23,600	12,000
ADF-R-0497 CONTROL OF PARASITISM, CHALKBROOD, AND FOLIAR MOULD PROBLEMS IN LEAFCUTTING BEES survey and conduct research on insect parasites, chalkbrood disease, and foliar moulds associated with leafcutting bees; develop new methods for control of parasites and fungi	D. Getz Saskatchewan Alfalfa Seed Producers Birch Hills	ADF Two Years 80,000	35,000
ADF-R-0518 PARASITIC MITES IN HONEY BEES: A TEST OF CHEMICAL CONTROL METHODS AND DEVELOPMENT OF SURVEY TECHNIQUES to develop control procedures for parasitic mites, to conduct annual survey to determine extent and degree of infestation in Sask. beekeeping industry, refine an immunological method (ELISA) for detection of HBTM infested bees	B. Nash Saskatchewan Beekeepers Association Nipawin	ADF One Year 100,000	80,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
BARLEY AND OATS			
* ADF-R-0027 MAXIMIZING BARLEY PRODUCTION UNDER HIGH INPUT CONDITIONS VIA SEMI-DWARF VARIETIES evaluate production potential of a new semi-dwarf strong-strawed barley variety in terms of moisture requirements under irrigation and natural conditions	B. Rossnagel Crop Development Centre University of Saskatchewan	ADF Four Years 141,598	36,750
ADF-R-0256 BARLEY AND OATS develop new cultivars of barley which are early maturing, high yielding, strong strawed and resistant to shattering and disease	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 1,029,910	281,047
ADF-R-0386 PHYSIOLOGY OF SALT TOLERANCE IN CROP PLANTS test the salt tolerance of commercial barley varieties and foxtail barley	B. Harvey Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Two Years 182,000	72,800
* ADF-R-0469 DEVELOPMENT OF SPECIFICATION SHEETS TO AID MARKETING OF OAT PRODUCTS BY CANMAR GRAIN INC. evaluate the quality of domestic and wild oats available for marketing in the province in order to supply CanMar Grain, Inc. with data required for specification sheets for their products	K. Sosulski Saskatchewan Research Council Saskatoon	ADF One Year 18,015	18,015
ADF-R-0542 THE USE OF RFLP TO SCREEN FOR LOOSE-SMUT RESISTANCE IN BARLEY identify an RFLP (Restriction Fragment Length Polymorphism) that is inherited in conjunction with a gene for true loose-smut resistance in barley	G. Scoles Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 175,789	50,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
OTHER CEREALS			
* ERD-R-0105 1.1-06 PHYSIOLOGY OF SALT TOLERANCE IN CROPS PLANTS investigate the processes of salinity tolerance in crops for use in selecting and breeding salinity-resistant cereal plants	B. Harvey Dept. of Crop Science & Plant Ecology University of Saskatchewan	ERDA Four Years 400,000	49,787
* ADF-R-0184 REASONS FOR VIGOR AND PERFORMANCE DIFFERENCES BETWEEN PEDIGREE SEED LOTS AND SEED LOT VIGOR TESTING PROCEDURES identify non-genetic factors affecting seedling vigor and final crop performance differences between different seed lots of barley and wheat to determine why differences occur	B. Rossnagel Saskatchewan Seed Growers Association Regina	ADF Two Years 27,500	3,750
ADF-R-0529 FLAX BIBLIOGRAPHY UPDATE update the flax bibliography so that research listed includes more recent information and a greater diversity of information on flax technology	G. Hanley Flax Council of Canada Winnipeg, Manitoba	ADF One Year 13,320	10,500
OTHER OILSEEDS			
ADF-R-0283 AN INVESTIGATION IN FLAX INTO THE MODIFICATION OF INHERITED CHARACTERS INDUCED BY SOMOCLONAL VARIATION AND PLASMID INSERTION evaluate the usefulness of somaclonal variation and plasmid insertion in variety development	S. Baker Flax Council of Canada Winnipeg, Manitoba	ADF Three Years 84,483	12,000
* ADF-R-0284 EFFECTS OF STRESS ON THE YIELD AND QUALITY OF FLAX determine how much genetic variability exists in flax plants for tolerance to low temperature, germination, frost chilling and heat	S. Baker Flax Council of Canada Winnipeg, Manitoba	ADF One Year 29,700	4,850
* ADF-R-0302 GOLDEN FLAX SEED BREEDING develop, by plant breeding, a yellow-seeded (golden) variety of flax that has yields similar to brown-seeded varieties, McGregor and Norlin	T. Jackson Tom Jackson Farms Fort Qu'Appelle	ADF Three Years 19,723	3,723

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0321 1.1-16 RED COTYLEDON PROJECT develop a red cotyledon lentil similar in yield and performance to the yellow cotyledon variety Eston	A. Slinkard Sask. Pulse Crop Development Bd. Regina	ERDA One Year 13,500	1,500
* ERD-R-0416 1.1-22 THE DEVELOPMENT OF AN EDIBLE-OIL FLAX VARIETY FOR SASKATCHEWAN develop a variety of edible-oil flax containing less than five per cent linolenic acid that is adapted to Saskatchewan and that has a yellow seed to make it visually distinguishable from industrial flax seed	G. Rowland Crop Development Centre University of Saskatchewan	ERDA One Year 69,520	34,520
ADF-R-0561 THE DEVELOPMENT OF AN EDIBLE-OIL FLAX VARIETY FOR SASKATCHEWAN develop a variety of edible-oil flax that contains less than 3% linolenic acid and that has a yellow seed to make it visually distinguishable from industrial flaxseed	G. Rowland Crop Development Centre University of Saskatchewan	ADF Two Years 148,000	58,000
ADF-R-0619 GOLDEN FLAX BREEDING PROJECT evaluate the various seed stock lines of yellow-seed variety	T. Jackson Tom Jackson Farms Fort Qu'Appelle	ADF Two Years 31,935	6,100
FORAGE SEED			
ADF-R-0187 SOIL FERTILITY REQUIREMENTS FOR OPTIMUM ALFALFA SEED PRODUCTION develop sound soil fertility recommendations for optimum alfalfa seed production and quality	W. Weighill Saskatchewan Alfalfa Seed Producers Prince Albert	ADF Three Years 45,000	10,000
* ADF-R-0198 INCREASING FORAGE SEED PRODUCTION WITH FERTILIZER determine optimum combination and timing of application of fertilizer to maximize profits of forage seed production; determine effect of row spaces and age of stand; evaluate effectiveness of fertilizer on certain forages	K. Stoner Newfield Seeds Ltd. Nipawin	ADF Three Years 75,150	27,750

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
FORAGES			
* ADF-R-0040 MANAGEMENT OF FORAGE PRODUCTION UNDER IRRIGATION establishment of nine forage field trials for comparision purposes at the Outlook Irrigation Centre	B. Goplen Agriculture Canada Research Station Saskatoon	ADF Four Years 127,000	19,000
* ERD-R-0044 2.2-06 NEAR INFRA-RED ANALYSIS OF FEEDSTUFFS calibrate a near infra-red analyzer to Saskatchewan feedstuffs	V. Racz Saskatchewan Feed Testing Laboratory University of Saskatchewa	ERDA Two Years 184,000	2,000
* ADF-R-0316 DROUGHT PROOFING OF CATTLE FEED SUPPLIES WITH KOCHIA develop reliable methods to plant, fertilize, harvest and feed kochia grown on saline and non-saline soils by studying several aspects	D. Marin Western Canada Kochia Association Saskatoon	ADF Two Years 91,300	61,300
* ERD-R-0381 2.2-21 EFFECT OF ANHYDROUS AMMONIA AND UREA ON FERMENTATION AND FEEDING VALUE OF HIGH MOISTURE CEREAL GRAINS evaluate the potential of anhydrous ammonia and urea in improving the fermentation characteristics, aerobic stability and feeding value of high-moisture barley for livestock	D. McCartney Agriculture Canada Research Station Melfort	ERDA Two Years 55,000	22,793
* ERD-R-0398 2.2-23 TREATMENT OF SCREENINGS TO IMPROVE THE NUTRITIONAL VALUE FOR CATTLE AND DESTROY WEED SEED VIABILITY improve the nutritive value of screenings and the weed seeds contained in it, and destroy the viability of those seeds by processing them with anhydrous ammonia and/or pelleting	B. Cuthbert Weyburn Inland Terminal Weyburn	ERDA One Year 39,500	19,500
* ERD-R-0413 1.4-29 PILOT HAY CERTIFICATE PROJECT have a descriptive method for grading forage for commercial sale	R. McGillivray Saskatchewan Forage Council Inc. Regina	ERDA One Year 30,000	4,420

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0491 TIME REQUIREMENTS FOR REGROWTH OF SEVERAL FORAGES determine length of time required for plants to recover from defoliation events at different times during the growing season; to provide producers with formulae for determining readiness of forage for grazing	J. Romo Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Four Years 126,706	69,000
ADF-R-0540 FINAL SELECTION CYCLE FOR SYNTHESIS OF A BLOAT-SAFE ALFALFA develop a bloat-safe variety of alfalfa adapted to western Canada	B. Goplen Agriculture Canada Research Station Saskatoon	ADF Two Years 35,000	14,000
ADF-R-0581 WOLF PLANT EFFECTS ON GROWTH AND PRODUCTIVITY IN CRESTED WHEATGRASS determine impacts of wolf plants in crested wheatgrass on the growth, yield and plant water status in subordinate crested wheatgrass plants	J. Romo Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Two Years 16,440	3,300
ADF-R-0623 GENETIC DIVERGENCE IN GROWTH RATES IN CRESTED WHEATGRASS determine whether the phenomena of wolf plants in crested wheatgrass is a genetically controlled trait or whether it is a reflection of environmental or managerial conditions	J. Romo Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 63,680	15,200
MIXED VARIETY TRIALS			
* ADF-R-0227 REGIONAL TESTING OF GRAIN VARIETIES FOR SASKATCHEWAN obtain data on performance of licensed spring grain varieties under soil and climatic conditions, on selected experimental lines for possible licensing; develop lists and grow prelicensing trials for grain crops	B. Harvey Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 593,700	59,370

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
CANOLA			
* ADF-R-0170 HYBRID CANOLA AGRONOMY RESEARCH AND EXTENSION encourage and coordinate hybrid agronomic research being done by private companies and public agencies	E. Bendig Sask. Canola Growers Association Saskatoon	ADF Three Years 386,448	5,000
* ADF-R-0280 DETERMINATION OF THE EFFECTS OF CONVENTIONAL AND ULTRA-SMALL DROPS ON THE DEPOSIT OF FUNGICIDE ON CANOLA determine the effect on fungicide efficacy and coverage of ultra-small drops compared to conventional drops, 80 degree and 110 degree tips	B. Rogers Rogers Engineering Inc. Saskatoon	ADF Two Years 45,000	5,000
* ADF-R-0313 REDUCING CHLOROPHYLL IN HARVESTED CANOLA assess the performance of natural air drying and modified natural air drying as a method of chlorophyll reduction in canola and recommend on-farm drying techniques	K. Lewis Sask. Canola Growers Association Saskatoon	ADF Two Years 38,566	22,691
ADF-R-0393 GENIC MALE STERILITY IN CANOLA AND ITS USE IN HYBRID PRODUCTION develop a genic male sterile (GMS) system for the production of hybrid seed in canola (Brassica napus)	V. Sawhney Dept. of Biology University of Saskatchewan	ADF Two Years 30,000	24,000
ADF-R-0475 IDENTIFICATION OF GENE REGULATION SEQUENCES FOR IMPROVING FREEZING TOLERANCE OF CANOLA identification and isolation of gene regulatory (promoters) that will allow expression of an antifreeze gene during periods of frost risk	A. Cutler National Research Council Saskatoon	ADF Three Years 176,500	71,000
ADF-R-0536 BIOLOGICAL CONTROL OF A CANOLA PEST, THE BERTHA ARMYWORM (MAMESTRA CONFIGURATA) WITH THE PARASITE, MICROPLITIS MEDIATOR establish a population of the European parasite, Microplitis mediator, to control the Bertha Armyworm, Mamestra configurata	P. Mason Agriculture Canada Research Station Saskatoon	ADF Three Years 67,447	17,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0541 DEVELOPMENT OF FLEA BEETLE RESISTANT VARIETIES OF CANOLA-QUALITY BRASSICA SPECIES develop canola varieties resistant to flea beetle attack	K. Pivnick Agriculture Canada Research Station Saskatoon	ADF Two Years 50,620	8,000
ADF-R-0615 EVALUATION OF NEW BRASSICA (CANOLA AND MUSTARD) MEALS FOR ANIMAL FEED determine the need for further reduction in glucosinolate level in canola	M. Bell Dept. of Animal and Poultry Science University of Saskatchewan	ADF Two Years 98,430	38,600
PULSES AND BEAN CROPS			
ADF-R-0304 REDUCTION OF THE FLAVOR DEFECT PRESENT IN PROCESSED PEA PROTEINS improve the marketability of processed dry pea protein products by improving their flavor; determine source of the off-flavor associated with dry pea products and identify a processing method to prevent or remove off-flavor	S. McCurdy POS Pilot Plant Corporation Saskatoon	ADF One Year 50,000	50,000
* ERD-R-0315 1.1-14 EVALUATION AND DEVELOPMENT OF DESICCANTS FOR LENTIL PRODUCTION evaluate all available desiccants and determine the effect of ammonium sulfate fertilizer on their activity and generate sufficient data to support the registration of at least one desiccant for use in the production of lentils	K. Kirkland Sask. Pulse Crop Development Bd. Regina	ERDA Three Years 40,000	2,000
* ERD-R-0316 1.1-15 SULFUR FERTILIZER RESPONSE ON FIELD PEAS determine the effect of sulfate fertilizer on the growth and yield of century field peas	J. Ferrie Sask. Pulse Crop Development Bd. Regina	ERDA Two Years 32,000	2,000
* ERD-R-0324 1.1-19 EVALUATION OF LATHYRUS (GRASS PEAS) UNDER MOISTURE LIMITING CONDITIONS evaluate agronomic potential of low neurotoxin lines of Lathyrus sativus as a drought resistant pulse crop	A. Slinkard Sask. Pulse Crop Development Bd. Regina	ERDA Two Years 6,900	1,900

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0382 1.1-20 UTILIZATION OF WILD LENTILS IN LENTIL BREEDING explore the possibility of transferring useful genes from wild to cultivated lentil species	G. Scoles Sask. Pulse Crop Development Board Regina	ERDA Two Years 13,600	8,600
ADF-R-0420 EVALUATION OF DESI CHICKPEA AS A NEW PULSE CROP FOR SASKATCHEWAN evaluate the potential of desi chickpea as an alternative crop for production in the low rainfall areas of Saskatchewan	A. Slinkard Sask. Pulse Crop Development Board Saskatoon	ADF Three Years 15,150	8,000
* ERD-R-0423 1.2-12 WHERE DOES ASCOCHYTA BLIGHT OF LENTIL COME FROM? conduct a survey of lentil crops and study the effects on disease gradients; repeat 1988 tests on epidemiological consequences of planting seed with different levels of ascochyta infection	D. Jaques Sask. Pulse Crop Development Board Regina	ERDA One Year 14,500	3,587
* ADF-R-0425 MYCOSPHAERELLA BLIGHT OF PEAS IN NORTHEASTERN SASKATCHEWAN determine the incidence, severity and distribution of blight and other diseases of pea in northeastern Saskatchewan by means of an intensive survey for the third year	W. Berkenkamp Sask. Pulse Crop Development Board Regina	ADF One Year 4,500	4,500
ADF-R-0427 SELECTION, COMPETITION AND SURVIVAL OF RHIZOBIAL STRAINS OF PEAS IN SASKATCHEWAN select superior rhizobial strains for peas and determine the competitiveness and survival of introduced rhizobia and supply Saskatchewan farmers with an improved innoculant	C. Van Kessel Saskatchewan Institute of Pedology University of Saskatchewan	ADF Three Years 119,920	64,280

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0449 1.3-15 INVESTIGATION OF PNEUMATIC SEEDER PERFORMANCE FOR METERING PULSE SEEDS assess damage to pulse seeds by various types of meters & distribution manifolds on commercially available seeders; provide guidelines for selecting suitable air seeder and for redesign of metering and distribution systems	M. Jorgenson Prairie Agr. Machinery Institute Humboldt	ERDA One Year 19,800	9,800
ADF-R-0472 GUIDELINES FOR IMPROVED STORAGE LIFE OF LENTILS investigate effects on lentil quality of oxidation, arising from long-term storage in conventional storage bins	D. Lischynski Prairie Agr. Machinery Institute Humboldt	ADF Two Years 10,565	4,500
ADF-R-0480 MOLECULAR DETECTION OF ASCOCHYTA RESISTANCE GENES FOR LENTIL BREEDING develop a procedure for the restriction fragment length polymorphisms (rflp's)	J. Mahon Plant Biotechnology Institute Saskatoon	ADF Two Years 200,000	63,000
RANGE AND PASTURE			
ADF-R-0539 CONTROL OF HEAD SMUT ON MEADOW BROMEGRASS collect information required to obtain a registration for seed treatment to control head smut on meadow bromegrass	B. Gossen Agriculture Canada Research Station Saskatoon	ADF Three Years 37,300	14,740
SPECIAL CROPS			
ADF-R-0254 ALTERNATE AND SPECIAL CROPS develop new crops for Saskatchewan	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 1,597,300	447,720
* ADF-R-0301 LIGNOCELLULOSE DEGRADING ENZYMES FROM SOLID-STATE FERMENTATION OF STRAW WITH PLEUROTUS FUNGI AND THEIR INDUSTRIAL APPLICATIONS develop methods of extraction from spent substrates after production of Pleurotus mushrooms and characterize specific activities of enzymes extracted from spent substrates of other strains	K. Sosulski Saskatchewan Research Council Saskatoon	ADF One Year 30,000	5,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0318 PROCESS DEVELOPMENT FOR ODORLESS THERAPEUTIC GARLIC PRODUCTS develop an industrial process to produce therapeutically potent and odorless garlic products	Y. Owusu-Anash POS Pilot Plant Corporation Saskatoon	ADF One Year 40,000	20,000
FRUITS			
ADF-R-0268 NATIVE FRUIT DEVELOPMENT select and establish a wide genetic base of wild existing cultivars	R. St. Pierre Dept. of Horticulture Science University of Saskatchewan	ADF Five Years 300,000	65,000
ADF-R-0501 EFFECTS OF TEMPERATURE AND PHOTOPERIOD ON RHIZOME PRODUCTION AND GROWTH BY THE LINGONBERRY, VACCINIUM VITIS-IDAEA determine timing and extent of rhizome production and growth as it is influenced by temperature and photoperiod	R. St. Pierre Dept. of Horticulture Science University of Saskatchewan	ADF Two Years 58,000	40,000
ADF-R-0605 STRAWBERRY MULTI-ROW COVER AND ORGANIC OVERWINTERING METHODS determine the effectiveness of a synthetic multi-row cover on strawberry winter survival and yield; screen organic cultural methods; provide strawberry production manual	K. Tanino Dept. of Horticulture Science University of Saskatchewan	ADF One Year 16,200	12,960
VEGETABLES			
* ADF-R-0303 OPTIMIZING A TISSUE CULTURE SYSTEM TO PRODUCE DISEASE-FREE NUCLEAR STOCK FOR POTATO SEED test and develop several procedures for rapid production of disease-free potato cultivars and develop a tissue-culture-based seed production model	E. Vermette Saskatchewan Vegetable Growers Association Yorkton	ADF Two Years 39,463	24,429
* ADF-R-0488 DISEASE ELIMINATION BY TISSUE CULTURE AND TESTING OF POTATO BREEDING CLONES develop main crop potatoes with superior processing quality, disease resistance and storage characteristics	D. Lynch Agriculture Canada Research Station Lethbridge, Alberta	ADF One Year 4,000	4,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0556 BIOLOGY, ECONOMICS AND CONTROL OF WILD TOMATO AND RELATED SPECIES determine the nature and extent of the problem caused by wild tomato and related species on farms producing pulse crops, evaluate potential chemical control and develop a practical wild tomato control strategy	B. Frick Crop Development Centre University of Saskatchewan	ADF Three Years 116,800	14,000
ADF-R-0569 EVALUATION OF NEWLY DEVELOPED POTATO CLONES FOR ADAPTATION IN SASKATCHEWAN support a Saskatchewan testing site in the Prairie Regional Potato Trials	D. Waterer Dept. of Horticulture Science University of Saskatchewan	ADF Two Years 52,000	42,000
ADF-R-0634 EXAMINATION OF THE COMMERCIAL SIGNIFICANCE AND PHYSIOLOGICAL BASIS OF "NORTHERN VIGOR" IN POTATO SEED TUBERS research "Northern Vigor" further which will assist seed potato growers to manage their crop to maximize its vigor and potential value	D. Waterer Dept. of Horticulture Science University of Saskatchewan	ADF Two Years 82,000	16,000
WHEATS			
* SAR-R-0016 DEVELOPMENT OF TECHNIQUES AND STRATEGIES TO SELECT FOR GRAIN YIELD, PROTEIN CONTENT AND KERNEL HARDNESS IN WHEAT develop and evaluate calibration constants for a near-infrared reflectance spectrophotometer, formulate selection strategy and implement evaluation and selection strategies	T. McCaig Agriculture Canada Swift Current	SARF One Year 3,200	1,400
* SAR-R-0039 SCREENING DURUM WHEAT AND WILD EMMER WHEAT GERMPLASM FOR DROUGHT TOLERANCE evaluate and characterize the germplasm of durum wheat and its immediate evolutionary progenitor, wild emmer wheat, for drought tolerance	S. Jana University of Saskatchewan	SARF One Year 16,000	1,600

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0171 STUDIES ON RESISTANCE IN WHEAT TO SEPTORIA NODORUM BLOTCH AND TAN SPOT provide the basis for developing wheat varieties resistant to Septoria nodorum blotch and tan spot caused by Pyrenophora triticirepentis	G. Hughes Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 204,971	66,016
* ADF-R-0172 BREEDING FOR RESISTANCE TO LEAF RUST IN DURUM WHEAT obtain information about the inheritance of leaf rust resistance in wheat, identify new sources of resistance and produce good combinations of resistance for use in durum breeding programs	D. Knott Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 59,160	10,200
* ADF-R-0244 A COMPARISON OF THREE WEED MANAGEMENT SYSTEMS IN SPRING WHEAT evaluate three weed management systems on weed pressure, weed populations and crop yield in a wheat production system and determine cost-benefit ratios for the use of herbicides in comparison to non-chemical weed control methods	F. Holm Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Two Years 78,000	14,000
ADF-R-0255 SPRING WHEAT develop new cultivars of hard red spring, durum prairie spring and soft white spring wheats which are early maturing, strong strawed, high yielding, disease resistant and have good quality	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 1,148,290	316,329
ADF-R-0257 WINTER CEREALS conduct research into agronomic practices which maximize winter survival and yield of winter wheat and rye	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 951,273	259,675

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0309 DEVELOPMENT OF TECHNIQUES & STRATEGIES TO SELECT FOR GRAIN YIELD, PROTEIN CONTENT AND KERNEL HARDNESS IN WHEAT USING NEAR INFRARED SPECTROSCOPE develop and evaluate calibration constants for a near infrared reflectance spectrophotometer, formulate selection strategy and implement evaluation and selection strategies	T. McCaig Agriculture Canada Swift Current	ADF One Year 30,761	5,000
ADF-R-0428 SOIL AND WATER CONSERVATION FOR PROFIT: DEVELOPMENT OF ADAPTED WINTER WHEAT CULTIVARS AND MANAGEMENT SYSTEMS FOR SASKATCHEWAN identify and register CDC winter wheat breeding lines with regional adaption and determine the feasibility of aerial seeding of winter cereals in the Parkland Region	B. Fowler Crop Development Centre University of Saskatchewan	ADF Four Years 315,100	140,000
ADF-R-0429 SOIL AND WATER CONSERVATION FOR PROFIT: IMPROVEMENT IN COLD TOLERANCE, QUALITY AND PEST RESISTANCE OF WINTER CEREALS idenfity rye and crested wheat chromosomes carrying elite cold hardiness, Russian wheat aphid tolerance and disease resistance for substitution into winter wheat	B. Fowler Crop Development Centre University of Saskatchewan	ADF Four Years 374,925	160,000
ADF-R-0459 BREEDING DURUM WHEAT FOR SASKATCHEWAN produce new durum wheat varieties that will increase the economic return to Saskatchewan growers	D. Knott College of Agriculture University of Saskatchewan	ADF Four Years 210,008	92,000
ADF-R-0577 CHROMOSOMAL LOCATION OF GENES FOR RESISTANCE TO SEPTORIA LEAF SPOTS OF WHEAT determine the chromosomal location of genes controlling resistance to septoria nodorum blotch	G. Hughes Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 60,350	15,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0639 EFFECT OF TILLERING ON WEED SUPPRESSION IN SPRING WHEAT determine the relationship between tillering potential and weed suppression capacity in spring wheat (Triticum aestivum L.)	P. Hucl Crop Development Centre University of Saskatchewan	ADF Three Years 72,060	9,000
CROPS - OTHER			
* ERD-R-0108 1.1-08 HORTICULTURE DEVELOPMENT develop varieties suitable for Saskatchewan conditions and enhance horticulture production	C. Stushnoff Horticulture Science University of Saskatchewan	ERDA Four Years 710,000	38,891
ADF-R-0258 BIOTECHNOLOGY, GENETICS AND PHYSIOLOGY develop methods for plant tissue culture and regeneration	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 1,316,570	337,909
* ADF-R-0306 EVALUATION OF YIELD QUALITY AND HERBICIDAL RESIDUE WHEN GLYPHOSATE IS APPLIED PREHARVEST ON CERTAIN CROPS evaluate the optimum time of application as well as verify the presence or absence of glyphosate residue in seed and in straw on certain crops, starting when the seed is approximately 50 per cent moisture	K. Goudy Focus on Inputs Association Inc. Melfort	ADF Two Years 292,000	142,000
* ADF-R-0455 WILD RICE RESEARCH investigate sediment redox potentials in order to better evaluate this parameter as an indicator of site potential for wild rice and determine the causes of poor seed set in wild rice and continue a harvester efficiency study	O. Archibold Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF One Year 100,000	60,000
ADF-R-0471 SELECTION OF SENSING METHOD FOR AUTOMATED GRAIN MOISTURE MEASUREMENT IN STORAGE BINS conceptualize and develop for manufacture in Saskatchewan a system for automated measurement of grain moisture content in storage bins	D. Lischynski Prairie Agr. Machinery Institute Humboldt	ADF Two Years 78,750	62,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0489 EVALUATION OF FEASIBILITY OF TURFGRASS BIOCONTROL AGENTS evaluate feasibility of turfgrass biocontrol agents	G. Wells Tradex International Consulting Corporation Calgary	ADF One Year 3,000	2,946
ADF-R-0544 WILD RICE PRODUCTION RESEARCH establish the effect of water depth on wild rice growth, determine the effect of sediment redox potential (Eh) and examine factors which affect seed set, grain ripening and rates of natural seed loss	W. Archibold Dept. of Geography University of Saskatchewan	ADF One Year 50,500	40,000
ADF-R-0632 SELECTION, FIELD TESTING AND MANAGEMENT OF MINIMUM CARE TURFGRASSES IN SASKATCHEWAN test and evaluate existing and potential climatically tolerant turfgrasses suitable for many uses under minimum care management in a range of climatic and soil conditions in rural and urban areas of Saskatchewan	E. Maginnes Department of Horticulture Science University of Saskatchewan	ADF Three Years 47,674	6,000
ANIMAL DISEASE CONTROL			
* ERD-R-0093 2.4-13 SHIPPING FEVER COMPLEX conduct field tests to study the effectiveness of two new types of shipping fever vaccine	F. Weeks Unity Veterinary Clinic Unity	ERDA One Year 7,800	1,049
ADF-R-0422 DEVELOPMENT OF MONOCLONAL ANTIBODIES FOR DIAGNOSIS OF INFECTIOUS DISEASES OF LIVESTOCK develop methods for improved diagnosis of infectious diseases	D. Haines Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 173,485	122,217
CROP DISEASE CONTROL			
* ADF-R-0017 PLANT DISEASES OF IRRIGATED CEREAL assess the incidence and severity and evaluate control methods of plant diseases of irrigated cereals	L. Duczek Agriculture Canada Saskatoon	ADF Four Years 111,300	29,400

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* SAR-R-0040 EVALUATION OF SOURCES OF RESISTANCE TO SEPTORIA TRITICI BLOTCH OF WHEAT evaluate sources of resistance to septoria tritici for components to resistance and rate of disease development and to determine the inheritance of resistance in selected resistant cultivars	G. Hughes Dept. of Crop Science & Plant Ecology University of Saskatchewan	SARF One Year 12,500	1,250
* ADF-R-0051 SCREENING FOR PHYTOPATH RESISTANCE IN CEREAL, PULSE AND OILSEED CROPS FOR HIGH-MOISTURE ENVIRONS OF SASKATCHEWAN establish an intensive irrigation field disease screening system at the University of Saskatchewan and begin disease screening for resistance to various diseases	B. Harvey Dept of Crop Science & Plant Ecology University of Saskatchewan	ADF Four Years 85,600	11,000
ADF-R-0394 EPIDEMIOLOGY AND MANAGEMENT OF SCLEROTINIA AND BLACKLEG OF CANOLA improve chemical control of sclerotinia by studying new fungicides and methods of making low doses and low volume applications effective	R. Morrall Department of Biology University of Saskatchewan	ADF Four Years 277,000	100,000
ADF-R-0583 DISEASE GRADIENTS AND HORIZONTAL SPREAD OF ASCOCHYTA BLIGHT OF LENTIL conduct quantitative studies of gradients of ascochyta blight and horizontal spore dispersal relative to time in lentil crops; investigate management practices that may reduce spread of ascochyta; initiate laboratory studies	R. Morrall Department of Biology University of Saskatchewan	ADF One Year 6,500	5,200
ADF-R-0588 THE DEVELOPMENT OF TOLERANT CROPS OF ECONOMIC IMPORTANCE IN WESTERN CANADA TO THE NON-SELECTIVE HERBICIDE GLUFOSINATE AMMONIUM confer herbicide tolerance in canola, mustard, alfalfa, peas, lentils and other specialty crops	E. Makowski Hoechst Canada Inc. Regina	ADF Five Years 1,250,000	130,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0602 ETIOLOGY OF ROOT ROT DISEASES IN FIELD PEA develop an integrated control program for the root rot disease complex in Saskatchewan and Alberta	S-F Hwang Alberta Environmental Centre Vegreville, Alberta	ADF One Year 8,500	6,800
ADF-R-0612 EFFECT OF ALTERNARIA BLACK SPOT SPECIES ON CANOLA GERMINATION AND SEEDLING DEVELOPMENT determine the relationship between the incidence of Alternaria infection, in the field as well as in the seed, and its effect on laboratory seed germination tests and subsequent field performance	E. Seidle E. Seidle Medstead	ADF Two Years 43,900	30,040
INSECT CONTROL			
* ADF-R-0129 RESPONSES OF DIAMONDBACK MOTHS, PLUTELLA XYLBSTELLA (L.), AND OTHER INSECT PESTS TO VOLATILE COMPOUNDS OF CRUCIFEROUS CROPS provide information to plant breeders and genetic engineers which is useful in the development of varieties of cruciferous crops resistant to insect attack, and develop novel methods for insect pest population and control	C. Gillott Dept. of Biology University of Sskatchewan	ADF Three Years 78,000	4,749
ADF-R-0267 BIOINSECTICIDES identify, clone and express pathogenic and degradative genes in suitable microbial systems specific for combatting grasshoppers	G. Khachatourians Applied Microbiology and Food Science University of Saskatchewan	ADF Five Years 1,050,000	260,000
ADF-R-0401 BIOLOGICAL CONTROL OF THE RUSSIAN WHEAT APHID IN SASKATCHEWAN institute a biological control program for Russian Wheat Aphid in Saskatchewan	J. Doane Agriculture Canada Saskatoon	ADF Two Years 82,110	47,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0403 DISTRIBUTION, DAMAGE, MONITORING AND FACTORS WHICH INFLUENCE THE PEST STATUS OF THE RUSSIAN WHEAT APHID IN SASKATCHEWAN determine the occurrence and distribution of the Russian Wheat Aphid and evaluate factors influencing its status as a pest	O. Olfert Agriculture Canada Saskatoon	ADF Two Years 72,050	30,000
ADF-R-0419 DEVELOPMENT OF ASCOCHYTA RESISTANT LENTIL CULTIVARS incorporate this more effective level of ascochyta blight resistance into cultivars adapted to Saskatchewan including development of an ascochyta blight-resistant Laird-type lentils	A. Slinkard Sask. Pulse Crop Development Board Saskatoon	ADF Four Years 141,000	58,000
* ADF-R-0423 EVALUATION OF NEW BACKRUBBER INSECTICIDES FOR CONTROLLING BLACK FLIES ON CATTLE determine, during two consecutive black fly seasons, the effectiveness of unregistered insecticides, applied by backrubber, in protecting pastured beef cattle from black fly attack	P. Mason Agriculture Canada Research Station Saskatoon	ADF Two Years 20,840	12,840
* ERD-R-0448 1.2-13 GENETICALLY ENGINEERED BIOPESTICIDE CONTROL OF INSECT INFESTATIONS demonstrate the potential of Enterobacter bacterial species genetically engineered delivery system for entomopathogenic agents in the control of insects using the grasshopper as a test system	W. Chapco Department of Biology University of Regina	ERDA One Year 32,918	12,918
* ADF-R-0454 REGISTRATION OF MALATHION AND DECIS FOR USE ON SASKATOONS obtain the registration of Malathion and Decis as insecticides for use on Saskatoons under the Minor Use of Pesticides Program	R. Flaman Saskatchewan Fruit Growers Association Edenwold	ADF One Year 13,000	3,660

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0557 GENETICALLY ENGINEERED BIOPESTICIDES FOR CONTROL OF INSECT INFESTATIONS increase the efficacy of the cloning vector for the introduction of entomopathogenic genetic elements and evaluate the recombinant bacteria's lethal effects, transmissibility and environmental persistence	W. Chapco Department of Biology University of Regina	ADF Two Years 85,000	34,000
ADF-R-0629 ASSESSMENT OF LARVICIDING PROGRAMS IN REDUCING ADULT BLACK FLY (SIMULIUM SPP.) POPULATIONS IN NORTHEASTERN SASKATCHEWAN develop a monitoring program for adult black flies that will provide quantitative data for use in determining harassment levels within the black fly zone and for assessing the impact of larviciding on adult populations	S. Njaa Prince Albert District ADD Board Prince Albert	ADF Two Years 22,860	5,000
WEED CONTROL			
* ERD-R-0118 1.3-04 NATURAL HERBICIDES AND GROWTH INHIBITORS IN CANOLA AND SWEET CLOVER examine whether canola and sweet clover can be used in crop rotations to control weeds	E. Coxworth Saskatchewan Research Council Saskatoon	ERDA Two Years 32,800	3,280
* ERD-R-0137 1.3-09 PHOSPHORUS PLACEMENT AND ROW SPACING IN FIELD PEAS examine how field pea yields are affected by different placement/spacing combinations on various soil types	T. Wright Sask. Pulse Crop Development Board Regina	ERDA Three Years 15,000	3,000
* ADF-R-0185 THE BIOLOGICAL CONTROL OF LEAFY SPURGE determine the host range and acceptability for introduction of that which occurs on leafy spurge on the USSR Steppes	P. Harris Commonwealth Inst. of Biolog. Control Switzerland	ADF Three Years 120,000	10,000
* ADF-R-0220 COST EFFECTIVE WEED CONTROL determine the effect of drop size/carrier rate treatments on chemical efficacy for two growth stages for six herbicides	H. McEwan Western Canadian Wheat Growers Assoc. Regina	ADF One Year 30,000	15,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0260 WEED CONTROL develop innovative practical techniques for reduced cost weed control	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years 878,152	229,970
ADF-R-0378 DOWNY BROME CONTROL STRATEGIES FOR SOUTHERN SASKATCHEWAN provide farmers with techniques and methodologies for the successful management and containment of downy brome in the Southwest Region	S. Halyung District #10 ADD Board Robsart	ADF Three Years 250,000	135,000
* ADF-R-0385 ENVIRONMENTALLY AND COST-EFFECTIVE APPLICATIONS OF GLYPHOSATE IN CHEM FALLOW determine if multiple applications of reduced rates of glyphosate applied with mist-sized drops with 10 L/ha carrier will control perennial weeds in a chem fallow field	B. Rogers Rogers Engineering Inc. Saskatoon	ADF Two Years 70,000	40,000
* ERD-R-0409 1.2-11 BIOCHEMICAL ANALYSIS FOR IDENTIFICATION OF PLANT PATHOGENS IN BIOLOGICAL CONTROL OF WEEDS develop an accurate, relatively quick and easy technique that can be used in identification of plant pathogens in biological control of weeds	R. Zacharuk Department of Biology University of Regina	ERDA One Year 40,000	10,000
* ADF-R-0460 COLLECTION OF A. HOOKERI reduce the abundance of scentless chamomile on uncultivated and cultivated land by 70%	D. Peschken Research Station, Ag Canada Regina	ADF One Year 2,965	2,965
ADF-R-0573 THE BIOLOGICAL CONTROL OF LEAFY SPURGE screen and introduce the biocontrol agents with the potential to reduce spurge cover as well as the herbicide used for the control of leafy spurge	P. Harris Agriculture Canada Research Station Regina	ADF Four Years 200,000	40,000
DISEASE, PEST AND WEED CONTROL - OTHERS			
ADF-R-0546 STRATEGIC RESEARCH PROGRAM study of infectious diseases	S. Acres VIDO Saskatoon	ADF Six Years 1,800,000	240,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
POWER AND MACHINERY ENGINEERING			
* ERD-R-0246 1.3-12 DRYING AND VENTILATION OF LENTILS arrive at a relationship between airflow rate and pressure drop in bulk drying and ventilation of lentils, determine optimum airflow rate for natural drying, and recommend maximum safe temperature for heated air drying	D. Jaques Sask. Pulse Crop Development Board Regina	ERDA Three Years 17,950	3,000
ADF-R-0380 RESISTANCE OF FORAGES AND GRAIN SEEDS IN BULK TO AIRFLOW determine experimentally the resistance of bulk seeds and forages to airflow	S. Sokhansanj Dept. of Agricultural Engineering University of Saskatchewan	ADF Two Years 70,430	40,000
STRUCTURES AND ENVIRONMENT			
* ERD-R-0374 2.3-10 ENERGY ANALYSIS OF ALTERNATIVE COMBINATIONS OF BUILDING ENVIRONMENT, HEAT RECOVERY SYSTEMS AND SOLAR HEATING SYSTEMS FOR A BROILER CHICKEN HOUSE verify that Doe-2 can accurately predict the energy usage in an existing facility; identify and priorize factors which significantly affect the energy use; predict the energy usage that results from indoor temperature cycles	M. Bantle Bantle Engineering Research Saskatoon	ERDA Two Years 18,967	3,967
ADF-R-0387 APPLICATION OF EXPERT SYSTEMS TO ENVIRONMENTAL MANAGEMENT IN LIVESTOCK BUILDINGS design and test a computerized knowledge-based environmental management system for cold-region livestock barns	E. Barber Dept. of Agricultural Engineering University of Saskatchewan	ADF Two Years 45,430	25,916
* ERD-R-0414 2.3-14 IDENTIFICATION OF APPROPRIATE METHODS FOR CALCULATING FLOOR HEAT LOSS AND AIR INFILTRATION IN A LIVESTOCK BUILDING recommend the most appropriate method to calculate foundation, perimeter and floor heat loss from a livestock building and identify the limitations of the method	M. Bantle Bantle Engineering Research Saskatoon	ERDA One Year 8,835	2,835

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ENGINEERING - OTHERS			
* ADF-R-0310 TOOLS FOR THE DISABLED FARMER assess the tool use capabilities of prosthetics available, investigate modifications for improvement and document devices available, modifications being used and design improvements	L. Hill Prairie Agr. Machinery Institute Humboldt	ADF One Year 15,000	2,000
* ADF-R-0311 DESIGNS TO EXPAND HANDICAPPED FARMERS' ABILITIES investigate, evaluate and propose machine designs compatible with handicapped farmers' disabilities	L. Hill Prairie Agr. Machinery Institute Humboldt	ADF Two Years 22,400	4,400
FOOD MARKET IDENTIFICATION AND DEVELOPME			
* ADF-R-0195 WESTERN GRAINS STUDY quantify the world demand for food and feed grains, examine the competitive strength of Canada's prairie agriculture in world export markets and project further development	J. Maxwell Economic Council of Canada Ottawa	ADF Four Years 300,000	80,000
FOOD PRODUCT DEVELOPMENT AND PRODUCTION			
* ERD-R-0322 1.1-17 STABILITY OF GLA AND EPA UNDER MODEL AND COMMERCIAL STORAGE CONDITIONS study the effect of the distribution of polyunsaturated fatty acids on the oxidation rates of triglycerides and incorporate the beneficial nutritional properties of EPA and DHA into commonly used dietary products	A. McCurdy Applied Microbiology & Food Science University of Saskatchewan	ERDA Three Years 62,950	3,992
ADF-R-0384 PROCESSING OF DISTILLERS DRIED SOLUBLES INTO DIETARY FIBRE AND PROTEIN RICH INGREDIENTS FOR FOOD APPLICATIONS produce food grade ingredients by separating fibre and protein controlled drying in the presence of antioxidents and flavour removal	F. Sosulski Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 89,100	51,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0418 COOKING QUALITY OF FIELD GROWN AND INDUSTRIALLY PROCESSED CANADIAN LENTILS conduct research on the cooking quality of Saskatchewan grown lentils	R. Bhatty Sask. Pulse Crop Development Board Regina	ADF Two Years 45,450	19,500
ADF-R-0421 EFFECTS OF LENTILS ON GASTRO-INTESTINAL FUNCTION, LIPID METABOLISM AND MINERAL BALANCE IN HUMAN SUBJECTS investigate effects of lentils on gastro-intestinal function	D. Jaques Sask. Pulse Crop Development Board Regina	ADF Two Years 57,000	51,390
* ERD-R-0451 5.2-28 STUDY OF FOOD PROCESSING IN SASKATCHEWAN identify and assess new food processing/packaging opportunities in Saskatchewan; review possible processing of crops grown on small scale and study the economics of establishing processing facilities	B. Miller Wellington Foods Inc. Saskatoon	ERDA One Year 42,175	32,175
ADF-R-0496 PROMOTION OF HULLESS BARLEY BRAN AND FLOUR IN BAKERY PRODUCTS promote the use of milled barley (hulless) fractions such as bran and flour in bakery and other food products, which have been reported to lower serum cholesterol and blood glucose in experimental animals and humans	R. Bhatty Crop Development Centre University of Saskatchewan	ADF Two Years 50,000	32,000
FOOD TECHNOLOGY DEVELOPMENT			
* ADF-R-0026 FINE GRINDING AND AIR CLASSIFICATION OF CLEARS FROM HRS FLOUR MILLING INTO WHEAT PROTEIN CONCENTRATE AND A BAKERS FLOUR develop procedures for fine grinding coarse flours into protein, starch and cell wall components, and separate high protein concentrate for use as a gluten substitute	F. Sosulski Crop Science and Plant Ecology University of Saskatchewan	ADF Three Years 103,320	16,837

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0461 ANAEROBIC MICROBIOLOGY OF MODIFIED ATMOSPHERE PACKAGED FRESH MEATS develop and apply the modified atmosphere packaging (map) technology required to increase the shelf-life of fresh (non-frozen) meat products	A. McCurdy Applied Microbiology and Food Science University of Saskatchewan	ADF Three Years 49,451	6,000
ADF-R-0484 PATENT RESEARCH search those international patent bases to find usable technology for Saskatchewan firms in the food, feed and pharmeceutical industry	B. Vankoughnett POS Pilot Plant Saskatoon	ADF Two Years 30,000	20,000
COMMUNICATIONS			
* ERD-R-0439 5.2-26 REVITALIZATION OF AGRICULTURAL SOCIETIES - IMPLEMENTATION PHASE develop a portfolio of information to increase the awareness of SAASF in rural and urban communities, in government and in agribusiness; use material to assist agricultural societies to become an important part of the community	J. Reimer Sask. Assoc. of Agr. Societies & Exhib. Saskatoon	ERDA One Year 9,534	207
EXTENSION			
* ERD-R-0309 2.4-28 STUDY RELATED TO CONTINUING EDUCATION FOR SASKATCHEWAN VETERINARIANS develop recommendations for enhancing the continuing education program at the Western College of Veterinary Medicine	R. Kelly Sask. Veterinary Medical Association Saskatoon	ERDA One Year 2,000	261
RURAL COMMUNITY DEVELOPMENT			
* ERD-R-0279 5.2-19 DEVELOPMENT OF A MODEL FARM FAMILY SELF-HELP SUPPORT PROGRAM maximize the effectiveness of the limited health and mental health resources in rural areas	D. Fischer Saskatchewan Self-Help Development Unit University of Saskatchewan	ERDA One Year 41,100	11,100

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
TRAINING			
ERD-R-0452 5.2-29 COURSE DEVELOPMENT IN FEEDLOT MANAGEMENT put together a home study package which would allow feedlot workers to study while on the job	G. Hass Div. of Extension & Community Relations University of Saskatchewan	ERDA One Year 15,500	4,000
HUMAN RESOURCES - OTHERS			
* ERD-R-0275 5.1-14 AN INVESTIGATION INTO THE MACHINERY MODIFICATION DESIGNED AND USED BY SASKATCHEWAN FARMERS WITH PHYSICAL DISABILITIES produce an inventory of machinery modifications and aids used by Saskatchewan farmers with physical disabilities	R. Elian Saskatchewan Abilities Council Saskatoon	ERDA One Year 28,870	7,197
* ADF-R-0382 IMPACT OF DRIFTING ALKALI DUSTS: ASSESSMENT AND RECOMMENDATIONS determine the extent and nature of suspected lung dysfunction in the residents of Mossbank and area as a result of exposure to salt dusts blowing off Old Wives Lake	J. Dosman Centre for Agricultural Medicine University of Saskatchewan	ADF One Year 40,000	24,000
BEEF			
* ERD-R-0217 2.1-14 PATHOPHYSIOLOGY OF TESTICLE SIZE IN YEARLING BULLS determine the relationship between scrotal circumference measurement in yearling ROP beef bulls of different beef breeds and various other functional parameters	W. Cates Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 60,000	3,835
* ADF-R-0229 PROTEIN AND ENERGY REQUIREMENTS FOR FEEDLOT CATTLE determine the protein and energy requirements for feedlot cattle with respect to carcass gain, feed conversion, climate, protein quality, weaning and sex	R. Cohen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Three Years 92,500	31,500

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0237 2.1-19 THE COMPLETION OF A COMPUTER BASED SYSTEM FOR MEASURING THE SHAPE, ANGULARITY AND SIZE OF CATTLE develop a computer system to study lameness in Saskatchewan beef and dairy herds to permit data entry for potential stressors of management, nutrition, conformation and production	P. Greenough Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 60,000	8,570
* ERD-R-0289 2.1-17 EMBRYONIC LOSS IN CATTLE CAUSED BY CHROMOSOMAL TRANSLOCATIONS determine the degree to which fertility is reduced in cattle carrying translocations	S. Schmutz Dept. of Animal and Poultry Science University of Saskatchewan	ERDA Two Years 40,000	20,000
* ERD-R-0305 2.4-27 ESTABLISHMENT OF A SUCCESSFUL TREATMENT FOR GRAIN OVERLOAD IN CATTLE assess the efficacy of drugs in the treatment of cattle experiencing experimentally induced grain overload	E. Crichlow Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 54,294	24,294
* ERD-R-0312 2.4-29 DETECTION OF GENETIC POLYMORPHISM OF PLASMA PROTEINS IN CATTLE BY IMMUNOBLOTTING develop techniques to detect genetic polymorphism of complement proteins which play a major role in resistance to infectious diseases of cattle	H. Tabel Western College of Veterinary Medicine University of Saskatchewan	ERDA One Year 41,239	6,239
ADF-R-0372 BEEF PRODUCTION develop technology for the identification of genetic characteristics required to increase productivity to meet consumer demands for meat	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Four Years 700,000	260,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0410 2.4-34 STUDIES ON IMMUNITY TO UREAPLASMA DIVERSUM GENITAL INFECTIONS IN BEEF HEIFERS characterize the local (genital) and systemic immunological responses of viruses in heifers to genital infections with urea plasma diversum and determine the feasibility of vaccination as a method of control/prevention	J. Saunders Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 42,850	18,850
ADF-R-0414 UNIQUE TREATMENT MODALITIES FOR JOINT INFECTION IN CATTLE create two economical models of treatment of joint infections in young and growing cattle	J. Ferguson Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 17,450	6,000
ADF-R-0437 THE DEVELOPMENT OF A RAPID, SENSITIVE AND SPECIFIC TEST FOR DETECTING BOVINE VIRAL DIARRHEA VIRUS develop a rapid test that will detect small amounts of BVDV in clinical samples	V. Misra Western College of Veterinary Medicine University of Saskatchewan	ADF Three Years 110,700	51,400
* ADF-R-0439 DETECTION OF GENETIC POLYMORPHISM OF CATTLE PROTEINS ASSOCIATED WITH NATURAL RESISTANCE TO INFECTIOUS DISEASES develop techniques to detect genetic polymorphism of complement proteins which play a major role in resistance to infectious disease of cattle	H. Tabel Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 33,109	33,109
ADF-R-0445 BREEDING LOW ANTHOCYANOGEN BARLEY FOR SASKATCHEWAN breed agronomically acceptable low anthocyanogen malting barley varieties for Saskatchewan	B. Harvey Dept. of Crop Science & Plant Ecology University of Saskatchewan	ADF Three Years 90,000	54,000
ADF-R-0462 CHARACTERIZATION OF HIGHLY POLYMORPHIC DNA MARKERS FOR PARENTAGE VERIFICATION IN CATTLE provide the Canadian cattle breeding industry with an improved method for parentage verification	Y. Plante Saskatchewan Research Council Saskatoon	ADF Two Years 60,000	53,700

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0483 COMPLETION OF SPECIFIC INVESTIGATIONS INTO BRD BOVINE ABORTION AND NEONATAL CALF LOSS AND ANALYSIS OF RESULTS study disease and production problems identified the winter of 1989	E. Janzen Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 27,000	27,000
ADF-R-0507 THE APPLICATION OF ULTRASOUND TO THE BREEDING AND MARKETING OF CATTLE develop specific strains of breeding cattle for market that possess specific carcass characteristics; initiate a program utilizing ultrasound as a method of identifying superior breeding stock	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF One Year 87,000	70,000
ADF-R-0511 THE INFLUENCE OF IONOPHORES IN REDUCING FOUNDER-LIKE CHANGES IN THE HOOVES OF INTENSIVELY FED CATTLE find out if supplementing feed with chemicals which convert methane to useful nutrients in the rumen will reduce founder in feedlot steers	P. Greenough Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 14,500	11,600
ADF-R-0563 THE USE OF SUCROSE IN THE FAST-FREEZING OF BOVINE EMBRYOS AND TO REMOVE GLYCEROL IN A 'SINGLE STEP' AFTER THAWING determine the optimum concentrations of cryoprotectants and equilibration times to successfully fast-freeze bovine embryos and utilize sucrose in the removal of glycerol after thawing	R. Mapletoft Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 60,000	24,000
ADF-R-0594 CHROMOSOMAL CAUSES OF SPONTANEOUS ABORTION AND STILLBIRTHS IN CATTLE calculate incidence of chromosome abnormalities in cattle abortuses; determine if chromosome losses increase with cow age and if abnormal chromosome complements in seven-day embryos are still present late in gestation	S. Schmutz Dept. of Animal and Poultry Science University of Saskatchewan	ADF One Year 36,000	14,400

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0616 THE DEVELOPMENT OF A STANDARDIZED SERUM TO OPTIMIZE TISSUE CULTURE AND EMBRYO TRANSFER - IN VITRO FERTILIZATION define serum, or serum products which will optimize in vitro fertilization, embryo culture and freezing and embryo transfer results	C. Rousseaux Western College of Veterinary Medicine University of Saskatchewan	ADF Three Years 237,523	50,000
ADF-R-0625 CONGENITAL PROGRESSIVE POSTERIOR PARALYSIS (CPPP) IN SASKATCHEWAN BEEF HERDS confirm hypothesis that produce beef calves affected with congenital progressive posterior paralysis (CPPP) is associated with feeding pregnant beef cows wet barley straw over winter	C. Ribble Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 17,800	7,000
ADF-R-0648 APPLICATION OF REAL-TIME ULTRASOUND TO BEEF CATTLE BREEDING AND MARKETING IN SASKATCHEWAN utilize real-time ultrasound on breeding and slaughter cattle in order to develop the expertise and data base necessary to assist cattlemen	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Three Years 350,800	47,000
DAIRY			
* ERD-R-0064 2.2-13 DAIRY PRODUCTION AND FEED EVALUATION develop improved dairy cattle feeding rations	D. Christensen Dept. of Animal and Poultry Science University of Sasktachewan	ERDA Four Years 140,000	35,000
* ERD-R-0065 2.3-05 DAIRY MANAGEMENT, HOUSING AND PHYSICAL CHARACTERISTICS OF DAIRY CATTLE improve the management and efficiency of dairy herds through computerized record keeping	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ERDA Four Years 160,000	40,000
* ADF-R-0432 IODINE CONTENT OF SASKATCHEWAN MILK determine the iodine content of milk on individual dairy farms in Saskatchewan over a six month period	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF One Year 20,000	5,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0607 THE SASKATCHEWAN DAIRY INDUSTRY: PROSPECTS FOR SURVIVAL OR GROWTH? assess the key economic and policy variables influencing the competitiveness of the Saskatchewan dairy industry and its growth potential for the future	K. Rosaasen Dept. of Agricultural Economics University of Saskatchewan	ADF One Year 35,800	28,000
GAME ANIMALS			
* ERD-R-0094 2.4-15 HERD HEALTH OF GAME FARM ANIMALS study the effects of two vaccines to combat disease in various deer species on Saskatchewan game farms	J. Haigh Saskatchewan Game Farmers Association Yorkton	ERDA Two Years 50,500	5,487
* ERD-R-0362 2.4-33 REVIEW OF WILDLIFE DISEASE STATUS IN GAME ANIMALS IN NORTH AMERICA develop disease profiles for game farm animals and evaluate detection and treatment procedures for various wildlife disease parasites	R. Clark Saskatchewan Game Farmers Association Fairlight	ERDA One Year 30,000	5,133
* ERD-R-0379 2.6-08 PROVINCIAL GAME MEAT MARKET STUDY determine the market size and characterize the market for game meat in Saskatchewan	R. Lorezel Saskatchewan Game Farmers Association Handel	ERDA One Year 26,500	3,300
ADF-R-0388 GAME FARMING - PROVISION OF INFORMATION - CONTINUATION establishment of an authoritative information service for bison and elk operations	J. Haigh Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 30,000	21,000
* ERD-R-0429 2.4-36 THE AMERICAN ELK AND MENINGEAL WORM: DO ELK SURVIVE IT? CAN THEY TRANSMIT IT? CAN WE DETECT IT? determine the pathogenicity of meningeal worm for white-tailed deer and American elk at two dose levels and determine whether meningeal worm can complete its life cycle in elk	W. Samuel University of Alberta Edmonton	ERDA One Year 60,000	15,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
HORSES			
* ADF-R-0146 NUTRITION IN HORSES study feed utilization of horses and steers and study feed management as it relates to development of growing horses	N. Cymbaluk Dept. of Animal and Poultry Science University of Saskatchewan	ADF Three Years 230,900	35,000
* ERD-R-0434 2.6-14 SASKATCHEWAN HORSE INDUSTRY PERSPECTIVE PHASE II develop a detailed profile of the Sask. horse industry and describe the overall economic impact of activities; assess development potential and recommend developmental strategies	B. Hanson Agricultural Development Corp. of Sask. Regina	ERDA One Year 118,220	38,220
ADF-R-0628 DO EARLY WEANING, DIET AND COLD WEATHER AFFECT GROWTH QUALITY OF YOUNG HORSES? determine if early weaning, diet and weather conditions affect the growth quality of young horses	N. Cymbaluk Dept. of Animal and Poultry Science University of Saskatchewan	ADF Three Years 218,550	36,000
POULTRY			
* ADF-R-0228 INCREASING THE MARKET POTENTIAL OF SASKATCHEWAN FEED GRAINS FOR POULTRY improve the market potential of Saskatchewan feed grains for poultry	H. Classen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Three Years 158,100	55,600
ADF-R-0626 INVESTIGATION OF THE INCREASED SUSCEPTIBILITY TO CLOSTRIDIUM PERFRINGENS INFECTION OF CHICKENS FED WHEAT BASED DIETS investigate why wheat-based diets, in comparison to corn-based diets, increase the susceptibility of broiler chickens to necrotic enteritis	C. Riddell Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 14,521	7,000
SWINE			
* ADF-R-0148 EVALUATION OF FARROWING SYSTEMS evaluate currently available crates and floors for farrowing sows and evaluate novel farrowing systems	G. Christison Dept. of Animal and Poultry Science University of Saskatchewan	ADF Four Years 228,700	10,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0261 MANAGEMENT OF WEANLING PIGS minimize post-weanling environmental and social stress and maximize feed intake by examining feeding systems and feedstuffs	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Five Years 300,000	78,000
ADF-R-0262 MANAGEMENT PRACTICES TO INCREASE SOW PRODUCTION develop management systems to improve the reproductive fertility of sows and gilts	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Five Years 600,000	156,000
* ERD-R-0286 2.1-16 IMPROVEMENT OF REPRODUCTIVE EFFICIENCY IN THE GILT improve the efficiency of reproduction through methods of inducing first estrus and predicting fertility in young developing gilts	H. Rawlings Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 68,800	33,800
* ERD-R-0292 2.2-16 SWINE NUTRITION GUIDE provide an easy-to-understand guide on the feeding of pigs as well as practical, detailed information enabling pork producers to utilize local ingredients in swine diet formulation	J. Patience Prairie Swine Centre University of Saskatchewan	ERDA Two Years 26,450	2,450
ERD-R-0293 2.2-19 NOVEL APPROACHES TO SWINE DIET FORMULATIONS develop an effective analysis to determine the electrolyte balance of ingredients and mixed feeds and use this in improving swine diet formulation	J. Patience Prairie Swine Centre University of Saskatchewan	ERDA Two Years 137,620	35,000
* ADF-R-0327 INVESTIGATING CHLORIDE CONDUCTANCE INHIBITORS AS TREATMENTS FOR NEONATAL AND WEANLING DIARRHEA IN PIGS study the effects, activation and extent of inhibition of chloride conductance	G. Forsyth Western College of Veterinary Medicine University of Saskatchewan	ADF Three Years 173,150	5,550
* ERD-R-0380 2.1-15 PIG DEVELOPMENT FOR THE 90'S research and develop a structurally improved breeding animal designed for longevity under variable management conditions	E. Johnson Northern Pig Development Co. Ltd. Regina	ERDA Three Years 750,000	14,069

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0438 DEVELOPMENT OF AN ANTIBODY-BASED STAINING METHOD FOR DIAGNOSIS OF INFLUENZA IN PIGS develop an improved test to detect influenza virus infections in pigs	E. Clark Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 5,725	3,168
* ADF-R-0449 TUBE FEEDING SUPPLEMENTAL MILK TO REDUCE PRE-WEANING LOSSES IN SUCKLING PIGS discover when supplemental milk should be given to weak piglets; at birth or after a fast	D. Christison Dept. of Animal and Poultry Science University of Saskatchewan	ADF One Year 4,000	1,000
* ERD-R-0450 2.4-37 A STUDY OF VITAMIN A TOXICOSISIN IN GROWING PIGS produce Vitamin A toxicosisin in experimental pigs and document clinical signs and post mortem findings with special reference to growth plates of the skeleton	C. Doige Western College of Veterinary Medicine University of Saskatchewan	ERDA One Year 23,300	10,000
ADF-R-0482 RESOLVING THE HEALTH AND PRODUCTIVITY PROBLEMS RELATED TO THE USE OF POOR QUALITY DRINKING WATER IN SWINE PRODUCTION develop feed formulations which prevent scouring in newly weaned pigs drinking poor quality water	J. Patience Dept. of Animal and Poultry Science University of Saskatchewan	ADF Two Years 154,810	60,000
ADF-R-0567 IMPROVEMENT OF REPRODUCTIVE EFFICIENCY IN THE GILT improve the efficiency of reproduction in the gilt	N. Rawlings Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 69,550	28,000
ADF-R-0630 EXPERIMENTAL STUDY OF THE RESPIRATORY EFFECTS OF AIRBORNE CONTAMINANTS IN SWINE CONFINEMENT BUILDINGS test and study the respiratory effects of airborne contaminants in swine confinement buildings	J. Dosman Centre for Agricultural Medicine University of Saskatchewan	ADF One Year 15,192	6,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0636 IMPROVING CONSUMER ACCEPTABILITY AND PROCESSING VALUE OF PORK confirm earlier observations that special diets fed to pigs before slaughter can improve ultimate pork quality and acceptability by reducing the incidence of PSE and to enhance the marketability by special processing practices	J. Patience Prairie Swine Center Dept. of Animal and Poultry Science University of Saskatchewan	ADF Two Years 145,000	19,000
LIVESTOCK - OTHERS			
AWB-R-0002 PRODUCTION SYSTEMS FOR BIOTECHNOLOGY PRODUCTS TO IMPROVE LIVESTOCK PERFORMANCE development of commercially viable production systems including a marketing element to manufacture eight genetically engineered proteins which will be used as vaccines to improve health and performance of livestock	S. Acres Biostar Inc. Saskatoon	Four Years 871,850	516,411
* ERD-R-0061 2.1-11 SOMATOSTATIN-AUTOIMMUNIZATION improve somatostatin immunization methods with subsequent evaluation in lambs, swine, beef and dairy cattle	B. Laarveld Dept. of Animal and Poultry Science University of Saskatchewan	ERDA Three Years 188,000	8,000
ADF-R-0263 HORMONAL MANIPULATION OF ANIMAL PRODUCTION develop the somatostatin immunization technique with initial laboratory evaluation in rats and mice	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ADF Five Years 250,000	65,000
ADF-R-0269 ANIMAL BIOTECHNOLOGY focus on the immunological modulation of growth and reproduction	J. Manns Dept. of Graduate Studies and Research University of Saskatchewan	ADF Five Years 1,072,000	332,800
* ERD-R-0290 2.4-26 IMPROVEMENT OF PRODUCTION EFFICIENCY OF LIVESTOCK BY VACCINATION AGAINST SOMATOSTATIN improve efficiency of growth in swine, cattle and sheep by developing a vaccination technique against somatostatin	B. Laarveld Dept. of Animal and Poultry Science University of Saskatchewan	ERDA One Year 27,400	2,400

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0296 2.2-17 INTERACTIONS OF THIAMIN, COPPER, SULFUR AND LEAD IN RUMINANTS conduct multidisciplinary research into metabolism of trace minerals and thiamin and their interactions in ruminants	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ERDA One Year 31,000	4,000
* ERD-R-0357 2.4-30 THE EFFECT OF DIETARY SULFUR ON AVAILABLE THIAMIN AND DISEASE RELATED TO THIAMIN DEFICIENCY IN SASKATCHEWAN CATTLE establish available thiamin requirements in the presence of dietary sulfur normally encountered by Saskatchewan cattle and evaluate thiamin deficiency	C. Rousseaux Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 24,995	12,995
* ERD-R-0359 2.4-31 DEVELOPMENT OF A DISEASE OR SUB-OPTIMAL PRODUCTION INVESTIGATIVE UNIT IN SASKATCHEWAN make precise observations on naturally occurring productivity losses and determine if a field investigative mechanism is a necessary part of the veterinary diagnostic laboratory system in Saskatchewan	E. Jansen Western College of Veterinary Medicine University of Saskatchewan	ERDA Two Years 195,000	7,661
* ERD-R-0377 2.4-22 THE IMMUNOPATHOGENESIS OF BOVINE HERPESVIRUS-1 INFECTION IN CALVES emphasize the previously unstudied role of specific immune cells in the whole animal in controlling or exacerbating infections caused by this virus	C. Doige Western College of Veterinary Medicine University of Saskatchewan	ERDA Three Years 45,000	11,452
* ADF-R-0450 DEVELOPMENT OF A MOLECULAR TECHNIQUE FOR THE SEXING OF BOVINE EMBRYOS develop techniques for the production of sexed, frozen embryos for Saskatchewan breeders for national and international marketing and for domestic use	R. Mapletoft Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 201,000	45,907

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0658 INVESTIGATION OF FACTORS AFFECTING THE APPLICATION OF IN VITRO FERTILIZATION TECHNIQUES IN BOVINE REPRODUCTION develop techniques for the in vitro fertilization of bovine oocytes so that the various components can be tied together and exploited commercially	R. Mapletoft Western College of Veterinary Medicine University of Saskatchewan	ADF Four Years 393,500	38,000
ECONOMICS RESEARCH			
* ADF-R-0043 ASSESSMENT OF AREA-SPECIFIC ECONOMIC OF ON-FARM IRRIGATION DEVELOPMENT develop a simulation model for on-farm decision making with respect to irrigation under Saskatchewan conditions	S. Kulshreshtha Dept. of Agricultural Economics University of Saskatchewan	ADF Four Years 88,300	25,800
ADF-R-0264 FARM INCOME POLICY evaluate the long-term strategy of Saskatchewan Agriculture	H. Furtan College of Agriculture University of Saskatchewan	ADF Five Years 241,850	70,525
ADF-R-0265 DIVERSIFICATION assist in the development of an economic diversification strategy for Saskatchewan Agriculture	H. Furtan College of Agriculture University of Saskatchewan	ADF Five Years 172,200	50,180
ADF-R-0440 ECONOMICS OF FARM SIZE IN RED MEAT PRODUCTION AND ITS IMPACT UPON SASKATCHEWAN ECONOMY estimate the nature and magnitude of linkages between this sector and the provincial economy, and thereby estimate direct and indirect value-added by various types of red meat production	W. Mazer Sask. Beef Stabilization Board Sask. Pork Producers Marketing Board Regina	ADF Two Years 50,000	46,000
FARM MANAGEMENT			
* ERD-R-0272 5.2-17 PRIORITY MANAGEMENT FOR FARM FAMILIES develop a time management plan for farmers	B. Cook Priority Management Systems Saskatoon	ERDA Two Years 28,700	6,480

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
SURVEY			
* ERD-R-0202 5.1-06 TEST AND EVALUATE PROCEDURES FOR MORE EFFECTIVE USE OF MARKET INFORMATION FOR FINANCIAL PLANNING investigate the need for effective use of market information in financial planning by using "Marketing-Management Clubs"	R. Bens Farmwest Management Ltd. Saskatoon	ERDA One Year 30,700	5,531
ADF-R-0373 FARM FINANCE analyze the characteristics of farmers carrying debts in Saskatchewan	H. Furtan College of Agriculture University of Saskatchewan	ADF Four Years 156,000	52,650
EVALUATIONS			
* ERD-R-0264 5.2-16 A PROJECT TO DETERMINE THE POTENTIAL FOR VENDOR FINANCING IN SASKATCHEWAN AGRICULTURE determine changes from traditional approaches to agreements for sale and lease-purchase options and investigate the feasibility of a clearing house function as part of a revitalized vendor financing market in Saskatchewan	W. Gamble Farmwest Management Ltd. Saskatoon	ERDA One Year 27,000	13,936
* ADF-R-0391 UNIVERSITY OF SASKATCHEWAN STRATEGIC RESEARCH PROGRAM EVALUATION - PHASE I evaluate the strategic research program	T. Bryant Brystra Consultants Regina	ADF One Year 15,000	2,500
ADF-R-0412 FACTORS AFFECTING THE REDUCED RATES/VOLUMES, EFFICACY AND DRIFT OF HERBICIDES evaluate the effect of environmental factors and plant stress on the efficacy of reduced rates and volumes of herbicides using farm-size field sprayers	J. Maybank Agvironics Consulting Saskatoon	ADF Three Years 262,500	160,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-R-0576 UNIVERSITY OF SASKATCHEWAN STRATEGIC RESEARCH PROGRAM EVALUATION - PHASE II identify and define problems affecting the methodology, effectiveness and results of the Strategic Research Program and to provide recommendations	T. Bryant Brystra Consultants Regina	ADF One Year 64,988	64,988
ADF-R-0578 ANALYSIS OF PERFORMANCE OF FLAXSEED MARKETING SYSTEM determine what changes need to be made to improve the current marketing system to meet the specific objectives and needs of each segment of the vertical market system: crushers, refiners, processors, wholesale/retail	A. Cantin The Flax Council of Canada Winnipeg, Manitoba	ADF Two Years 7,725	6,925
* ADF-R-0579 EVALUATION OF THE SCIENCE AND TECHNOLOGY DEVELOPMENT ACHIEVED BY THE SRP 1987-90 appraise, evaluate, determine the relevance of and suggest future direction for the science, research and technology development completed under the Strategic Research Program	G. Lee Agricultural Research University of Saskatchewan	ADF One Year 18,850	15,350
ECONOMIC CROP PRODUCTION EVALUATION			
ADF-R-0486 APPLIED PRODUCTION ECONOMICS AND COST OF PRODUCTION to analyze and develop expertise in applied production economics as it relates to economic analysis of various production techniques and systems	J. Stabler Department of Agricultural Economics University of Saskatchewan	ADF Three Years 118,700	52,840
ECONOMICS AND MANAGEMENT - OTHERS			
ADF-R-0271 OFFICE OF UNIVERSITY COORDINATOR OF AGRICULTURAL RESEARCH coordinate agricultural research with the University of Saskatchewan, SDA, other government agencies and private industry	G. Lee Agricultural Research University of Saskatchewan	ADF Five Years 411,600	134,160

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
INDUSTRIAL PRODUCT DEVELOPMENT (INPUTS FOR AGRICULTURE)			
ADF-R-0395 DEVELOPMENT OF QUARTER-SECTION DATABASE FOR LAND USE AND MANAGEMENT DECISION MAKING develop a quarter-section soil and land capability database which will provide an electronic link between legal survey locations and soil polygons of the most recent soil surveys	J. Stewart Saskatchewan Institute of Pedology University of Saskatchewan	ADF Two Years 94,100	50,000
ADF-R-0415 THE EVALUATION OF EDIBLE OIL FLAX (LINOLA) MEAL IN MONOGASTRIC AND RUMINANT NUTRITION evaluate edible oil flax meal by nutrition and relation to linseed meal for poultry, swine and dairy cattle	W. Scowcroft BTCI Group Ltd. Calgary	ADF Two Years 101,000	55,000
NON-FOOD PROCESSING			
* ADF-R-0293 NOVEL IMPROVEMENTS IN PRODUCTION OF ALCOHOLS FROM SURPLUS GRAINS apply biotechnological discoveries made to date to the commercial production of fuel alcohol from surplus grains and to the use of industrial enzymes for conversion of surplus grain starch to a variety of alcohols	W. Ingledew Applied Microbiology & Food Science University of Saskatchewan	ADF Two Years 73,200	11,600
SOIL CONSERVATION, EROSION CONTROL			
SOA-R-0144 SASKATCHEWAN SOIL SURVEY complete the resurvey of most of the agricultural area of Saskatchewan and to research the soil properties that determine sustained productivity and quality	E. de Jong Saskatchewan Institute of Pedology University of Saskatchewan	Four Years 1,840,000	356,000
* ADF-R-0221 LAND USE CHANGE AND SOIL CONSERVATION IN SOUTHWESTERN SASKATCHEWAN identify the causes, extent and impacts to soil of crop production on marginal farm land in the Swift Current region in southwestern Saskatchewan	D. Sauchyn Southwest Reg. Agricultural Council Gull Lake	ADF Two Years 38,872	5,790

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0251 SOIL CONSERVATION document the processes involved in organic matter formation and stability in Saskatchewan soils under a variety of current and potential soil conservation farming practices	D. Anderson Institute of Pedology University of Saskatchewan	ADF Five Years $10,000	136,500
ADF-R-0259 TILLAGE AND AGRONOMY develop soil conservation practices which will maximize returns to Saskatchewan producers	B. Harvey Crop Development Centre University of Saskatchewan	ADF Five Years $11,829	249,275
* ERD-R-0338 5.2-21 ON-FARM ECONOMIC COSTS OF SOIL EROSION demonstrate to producers, scientists and policy analysts the economic benefits of conserving soil productivity under dryland conditions in the dark brown soil zone	R. Zentner Agriculture Canada Swift Current	ERDA Two Years $2,400	9,787
* ADF-R-0413 IMPACT OF CROP INSURANCE POLICY ON LAND USE AND TECHNOLOGY ADOPTION analyze land use and soil conservation, risk management and technology adoption	H. Furtan College of Agriculture University of Saskatchewan	ADF Two Years $70,500	120,500
SOIL FERTILITY			
SOA-R-0006 GROWTH AND NUTRITION OF WHEAT AS AFFECTED BY INTERACTIONS BETWEEN VA MYCORRHIZAE AND PLANT GROWTH-PROMOTING RHIZOBACTERIA (PGPR) investigate and study interactions between vesicula-arbuscular mycorrhial (VAM) fungi and plant growth-promoting rhizobacteria (PGPR) and determine the mechanisms by which these interactions may occur	J. Germida Department of Soil Science University of Saskatchewan	Three Years $97,050	25,000
SOA-R-0148 PB50 AS A PARTIAL SUBSTITUTE FOR P FERTILIZATION determine the efficiency of PB50 as a partial substitute for P fertilization; evaluate the response of the dual Rhizobium-PB50 inoculation by pea	C. Van Kessel Dept. of Soil Science & Plant Ecology University of Saskatchewan	Two Years $5,000	38,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-R-0252 SOIL FERTILITY determine the fertilizer requirements for grains and grain legumes in dryland cropping systems in Saskatchewan and ensure that these recommendations are incorporated with soil test fertilizer recommendations	D. Anderson Institute of Pedology University of Saskatchewan	ADF Five Years 510,000	136,500
* ERD-R-0332 3.1-14 OCCURRENCE AND SIGNIFICANCE OF VAM MYCORRHIZAL SYMBIOSIS IN SASKATCHEWAN FIELD CROPS survey the distribution of VAM; identify management practices which encourage effective symbiotic relationships between indigenous VAM and susceptible crops; identify mycorrhizal innoculants which will benefit crop growth	J. Germida Dept. of Soil Science & Plant Ecology University of Saskatchewan	ERDA Two Years 93,050	23,050
GROUND WATER			
SOA-R-0005 THE EFFECT OF DILUTION WATER QUALITY ON THE EFFICACY OF SELECTED HERBICIDES determine effect of dilution water quality on the efficacy of selected herbicides under field conditions; investigate methods of overcoming antagonistic effects and to gain more information on water quality problems	F. Holm Dept. of Crop Science and Plant Ecology University of Saskatchewan	Three Years 98,500	13,000
* ERD-R-0148 3.2-01 SOIL SALINITY RESEARCH research in ground water movement	J. Henry Dept. of Soil Science & Plant Ecology University of Saskatchewan	ERDA Four Years 1,000,000	20,020
* ADF-R-0441 THE EFFECT OF DILUTION WATER QUALITY ON THE EFFICACY OF SELECTED HERBICIDES determine the effect of dilution water quality on the efficacy of selected herbicides; determine the quality of water being used by farmers in farm spraying programs	J. Henry Dept. of Soil Science & Plant Ecology University of Saskatchewan	ADF One Year 29,000	29,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
SOIL PROBLEMS (ACIDITY, SALINITY)			
* ADF-R-0215 DEVELOPMENT OF NATIVE LEGUME GLYCYRRHIZA LEPIDOTA AS A POTENTIAL SOIL RECLAMATION AND FORAGE CROP determine the feasibility of domesticating wild licorice as a multipurpose crop with forage, soil stabilization and saline-site reclamation potential	A. Walther University of Regina	ADF Two Years 9,850	2,220
SOIL SURVEY AND CLASSIFICATION			
* ADF-R-0225 SASKATCHEWAN SOIL SURVEY complete a survey of all soil types in the province	J. Stewart Institute of Pedology University of Saskatchewan	ADF Three Years 1,186,320	391,790
ADF-R-0398 SOIL CONSERVATION - ORIENTED SOIL SURVEYS IN EASTERN SASKATCHEWAN conduct a semi-detailed soil-conservation oriented soil survey; prepare interpretative data from survey and provide information through electronic data bases	J. Stewart Institute of Pedology University of Saskatchewan	ADF Three Years 1,000,000	594,000
SOIL TILLAGE			
SOA-R-0152 FIELD MONITORING AND ECONOMIC ASSESSMENT OF DEEP PLOWING AND OF DEEP RIPPING IN SASKATCHEWAN monitor changes in soil chemical and physical properties and moisture distribution following deep plowing and ripping; evaluate effectiveness and economic benefits; formulate recommendations	M. Grevers Dept. of Soil Science & Plant Ecology University of Saskatchewan	One Year 23,000	9,200
* ADF-R-0250 FIELD MONITORING OF DEEP RIPPING AT 12 FARM LOCATIONS IN SASKATCHEWAN monitor crop and soil conditions that have been altered due to deep ripping	M. Grevers Soil Science University of Saskatchewan	ADF Two Years 21,100	3,100

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-R-0328 3.1-11 MATERIALS DATABASE FOR TILLAGE TOOLS select and evaluate a range of materials for tillage tools and create a database for material selection for different soil conditions	S. Bhole Faculty of Engineering University of Regina	ERDA One Year 12,500	3,500
SURFACE WATER			
* ERD-R-0066 2.2-12 WATER QUALITY IMPROVEMENT research improvement of farm water by removing sulfates	D. Christensen Dept. of Animal and Poultry Science University of Saskatchewan	ERDA Four Years 100,000	25,000
* ERD-R-0161 3.2-03 SNOW MANAGEMENT AND MELTWATER ENHANCEMENT study the benefits of snow management and meltwater infiltration	W. Nicholaichuk National Hydrology Research Institute (NHRI) Saskatoon	ERDA Three Years 405,000	35,000
SOILS AND WATER - OTHERS			
ADF-R-0253 WATER EFFICIENCY AND SOIL PHYSICAL PROPERTIES investigate and develop on-farm management techniques which improve water and fertilizer use and efficiency to ensure maximum yield under all conditions	D. Anderson Institute of Pedology University of Saskatchewan	ADF Five Years 525,000	136,500
ADF-R-0379 ALGAE CONTROL IN FARM PONDS apply knowledge gained in 1987-88 to minimize algae growth in farm dugouts and produce good quality drinking water	H. Peterson Saskatchewan Research Council Saskatoon	ADF One Year 109,976	40,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
APICULTURE - HONEY BEES, OTHERS			
ADF-V-0220 HONEY MARKETING PLAN bring money to the province by increased sales of honey and increased returns to the producer	D. Valleau Saskatchewan Beekeepers Association Lintlaw	ADF Three Years 31,500	10,500
OTHER CEREALS			
ADF-V-0428 DEVELOPMENT OF QUINOA AS A NEW GRAIN CROP: MARKETING AND PROCESSING - PHASE II conduct market development research regarding quinoa; evaluate a dehuller for removing bitter saponins from quinoa	J. Kernan Saskatchewan Research Council Saskatoon	ADF One Year 15,000	10,000
OTHER OILSEEDS			
ADF-V-0356 EVALUATION OF SUNOLA, A VERY EARLY MATURING MINIATURE SUNFLOWER determine the optimum agronomic practices and economic potential of sunola	M. Pickard CSP Foods Ltd. Saskatoon	ADF Two Years 154,000	75,000
FORAGES			
ADF-V-0017 DEVELOPMENT OF SOUND AGRONOMIC PRACTICES FOR ALFALFA SEED PRODUCTION develop, evaluate and promote sound integrated agronomic management techniques which will help to maximize alfalfa seed yields and pedigreed seed quality	N. Malek Saskatchewan Alfalfa Seed Producers Birch Hills	ADF Four Years 109,500	14,500
ADF-V-0337 HAY CERTIFICATION AND FORAGE MARKET ACCESS PROJECT implement an objective method for classifying hay for commercial sale; foster greater awareness of production and worth of quality hay; create a base for facilitating efficient marketing	V. Racz Saskatchewan Forage Council Saskatoon	ADF Three Years 50,000	32,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0497 DOMESTIC AND U.S. MARKET DEVELOPMENT AND STRATEGY FOR PROCESSED ALFALFA AND ALFALFA BASED FEED PRODUCTS develop a marketing strategy for processed alfalfa and alfalfa based feed products in alternate markets and to investigate the utilization of by-products available which will enhance the sales of such products	D. Pulkinen KAPT-AL Services Ltd. Tisdale	ADF One Year 14,158	10,000
ORNAMENTAL PLANTS			
* ADF-V-0165 MARKET RESEARCH AND PLANNING FOR THE SASKATCHEWAN GROWERS ASSOCIATION develop a competitive marketing plan for Sask. grown greenhouse products benefitting the province economically by job creation and local expansion of the greenhouse industry	D. Millar Sask. Greenhouse Growers Association Saskatoon	ADF One Year 25,000	19,850
* ADF-V-0215 PRODUCTION REQUIREMENTS OF NEW POT PLANT AND CUT FLOWER CULTIVARS FOR COOL TEMPERATURE GREENHOUSE PRODUCTION IN SASKATCHEWAN develop and illustrate the potential of new pot plant and cut flower crops for cool temperature greenhouse production in Saskatchewan	R. St. Pierre Dept. of Horticulture Science University of Saskatchewan	ADF One Year 66,000	35,249
ORGANIC CROPS			
ADF-V-0328 A NEEDS ASSESSMENT OF THE NON-CHEMICAL CROP PRODUCTION INDUSTRY identify needs of producers and buyers meeting consumer demand for produce produced without chemicals; determine and clarify existing scientific knowledge regarding organically produced food; promote understanding of standards	O. Green O. Green Outlook	ADF One Year 15,000	15,000
* ADF-V-0368 MARKETING STUDY; FEASIBILITY OF PACKAGING ORGANIC ALFALFA SPROUTING SEED check the existing market of seed for home sprouting of alfalfa, radish and canola seed	J. & M. Mumm Hazelridge Farm Shellbrook	ADF One Year 3,400	3,400

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
CANOLA			
* ADF-V-0246 CANOLA PRODUCTIVITY CENTRES PART OF BLUEPRINT FOR THE 90'S learn how to set up and manage canola productivity centres	N. Underwood Canola Council of Canada Winnipeg	ADF One Year 2,000	400
ADF-V-0317 EIGHTH INTERNATIONAL RAPESEED CONGRESS, SASKATOON, SASKATCHEWAN - JULY 9-11, 1991 obtain funding required during the planning stages of the Congress	J. Bell Canola Council of Canada Winnipeg, Manitoba	ADF Two Years 25,000	20,000
PULSES AND BEAN CROPS			
ADF-V-0232 The Lentil Production Manual develop and print "The Lentil Production Manual"	A. Slinkard Sask. Pulse Crop Development Board Saskatoon	ADF Two Years 13,334	5,000
ADF-V-0391 PULSE MARKET DEVELOPMENT maintain and expand pulse markets by implementing a marketing strategy that improves product and industry image	D. Jaques Sask. Pulse Crop Development Board Regina	ADF One Year 73,600	55,000
SPECIAL CROPS			
* ADF-V-0216 SCREENING OF NEW SPRING AND FALL-PLANTED GARLIC CULTIVARS FOR PRODUCTION IN SASKATCHEWAN cultivars obtained from Canadian and foreign sources will be tested for adaption to spring and fall planting in Saskatchewan; relative yields of spring versus fall plantings will be determined	D. Waterer Dept. of Horticulture Science University of Saskatchewan	ADF Two Years 20,300	12,280
* ERD-V-0383 1.1-21 DEVELOPMENT OF QUINOA AS A NEW GRAIN CROP develop recommended agronomic practices for growing quinoa	J. Kernan Saskatchewan Research Council Saskatoon	ERDA One Year 30,000	8,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
FRUITS			
* ADF-V-0378 WILD FOOD HARVEST IN SASKATCHEWAN complete establishing managed wild stands of blueberries and cultivation of wild blueberries with farmers and get the handling, processing, marketing, promotion system operating	K. Brunner K. Brunner Consulting Prince Albert	ADF One Year 15,000	15,000
* ERD-V-0447 1.1-23 SASKATOON BERRY MICROPROPAGATION PROJECT - PHASE I - DEVELOPING PLUG PROPAGULE TECHNOLOGY FOR THE SASKATOON BERRY AMELANCHIER ALNIFOLIA commercialize a micropropagation procedure for the multiplication of the Saskatoon berry	P. Aulie Prairie Plant Systems Inc. Saskatoon	ERDA One Year 40,000	12
VEGETABLES			
* ADF-V-0213 COMPARISON OF SPUN BONDED POLYESTER AND CLEAR PLASTIC TUNNELS FOR SPRING FROST PROTECTION AND GROWTH PROMOTION OF VEGETABLES compare standard polyethylene and spun bonded polyester tunnels for spring frost protection and growth promotion of cold tolerant and cold sensitive vegetable crops	D. Waterer University of Saskatchewan Horticultural Science	ADF One Year 15,550	3,550
ADF-V-0372 NUCLEAR STOCK PROGRAM FOR POTATOES IN SASKATCHEWAN develop a non-profit centre for the production of disease-free pre-elite mini-tubers of potato for the production of certified seed potatoes in Saskatchewan	K. Giles Department of Horticulture Science University of Sasktchewan	ADF Two Years 85,000	38,000
ADF-V-0420 SEED POTATO MARKET DEVELOPMENT INITIATIVE generate seed potato sales to the United States; develop and improve seed potato industry in Saskatchewan	E. Vermette Sask. Vegetable Growers Association Yorkton	ADF One Year 25,000	10,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
CROPS - OTHER			
* ADF-V-0294 AN EXAMINATION OF SASKATCHEWAN'S PRIVATE FOREST RESOURCE detailed and accurate assessment of the potential of Saskatchewan's private forest resource to contribute to farm income	H. Shiell The Farm Woodlot Assoc. of Sask. Inc. Prince Albert	ADF One Year 62,000	38,400
ADF-V-0499 A CURRENT EVALUATION OF SASKATCHEWAN'S PRIVATE FOREST RESOURCES provide a detailed and accurate assessment of the potential of Saskatchewa's private forest resources to contribute to farm income stability and diversification	H. Shiell Farm Woodlot Association of Saskatchewan Prince Albert	ADF One Year 42,400	7,400
ANIMAL DISEASE CONTROL			
COM-V-0002 TESTING OF NEW HAEMOPHILUS SOMNUS AND BVD VACCINES FOR CATTLE to develop and test new cattle vaccines for IBR, BVD, Pasteurella haemolytica, and Haemophilus somnus, for commercial production	R. Harland VIDO Saskatoon	Two Years 153,750	40,000
ADF-V-0056 VIDO (FELLOWSHIP) develop and apply improved serological and immunological methods of diagnosing and monitoring important infectious diseases of livestock and poultry	S. Acres VIDO Saskatoon	ADF Five Years 500,000	150,000
* ADF-V-0180 BLOOD TESTING IN SASKATCHEWAN POULTRY demonstrate the use of new technology in testing poultry blood samples and use of data obtained in improving disease control	C. Riddell Western College of Veterinary Medicine University of Saskatchewan	ADF One Year 19,716	5,716
ADF-V-0438 DEVELOPMENT AND MAINTENANCE OF A DISEASE AND SUB-OPTIMAL PRODUCTION INVESTIGATIVE UNIT IN SASKATCHEWAN investigate, describe, prevent herd disease and production losses as requested by producers, their veterinarians and diagnostic laboratories	E. Janzen Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 70,000	15,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
INSECT CONTROL			
COM-V-0001 BIOHAZARD ASSESSMENT OF A GRASSHOPPER BIOCONTROL AGENT (B. bassiana) assess biohazard of a grasshopper biocontrol agend (B. bassiana)	H. Schiefer Toxicology Research Centre University of Saskatchewan	Two Years 202,700	71,000
COM-V-0004 INTERACTION BETWEEN A FUNGAL GRASSHOPPER BIOCONTROL AGENT AND PHYSICAL FACTORS IN SOILS, PLANTS AND NON-TARGETTED INSECTS assess and report the assessment of the active ingredient (AI) of B. bassiana responsible for grasshopper infection, which are its spores, on soils, plants and selected non-targetted insects in Saskatchewan	G. Khachatourians Applied Microbiology and Food Science University of Saskatchewan	Two Years 150,000	75,000
* ADF-V-0242 EFFICACY TESTS ON BLACKFLY LARVICIDE test a boat-operated sprayer which will provide maneuverability, flexibility, precision of application and freedom from vulnerability to adverse weather conditions	D. Lemkuhl Biosystems Consulting Ltd. Saskatoon	ADF One Year 24,930	9,683
DISEASE, PEST AND WEED CONTROL - OTHERS			
AWB-V-0005 BIOMAL REGULATORY PROCESS achieve registration of a post-emergent biological herbicide which selectively and specifically controls round-leafed mallow in field crops and to facilitate commercialization of the BioMal	J. Cross Philom Bios Saskatoon	Two Years 214,425	200,000
POWER AND MACHINERY ENGINEERING			
* ADF-V-0108 DEVELOPMENT OF A HAY DENSIFIER FOR MARKETING LONG FIBRE SASKATCHEWAN ALFALFA TO THE PACIFIC RIM develop a machine that will convert round hay bales to densified rectangular bales suitable for shipping to and marketing in Pacific Rim countries	G. Dalziel Love-Whitefox Forage Producers White Fox	ADF One Year 152,000	27,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0125 PORTABLE WHEAT MOISTURE TESTER develop a portable wheat moisture tester that is both technically and commercially viable	M. Thompson Thompson Farm Bredenbury	ADF One Year 30,875	4,584
ADF-V-0167 MODIFICATION OF EXISTING ELECTRIC HEATERS AND CONTROL SYSTEMS modify existing electric heaters to improve their serviceability in a real swine barn environment; determine ability of a commercial elecronic thermostatic controller to provide improved temperature control	R. Ford Dept. of Agricultural Engineering University of Saskatchewan	ADF Two Years 26,300	10,000
ADF-V-0168 THE EVALUATION OF HUMIDITY SENSORS FOR USE IN HEATING/VENTILATION CONTROLS IN LIVESTOCK HOUSING field test an experimental humidity measuring device with existing devices to determine their ability to function and retain accuracy in the dusty and corrosive atmosphere of a barn and make the necessary modifications	R. Ford Agricultural Engineering University of Saskatchewan	ADF Two Years 25,300	15,181
* ADF-V-0170 DEVELOPMENT OF A FARM TRACTOR FUEL EFFICIENCY AND PERFORMANCE MONITOR develop a microcomputer-based tractor monitoring system	G. Zoerb Dept. of Agricultural Engineering University of Saskatchewan	ADF Two Years 50,890	19,661
* ADF-V-0205 PORTABLE WHEEL LOAD SCALE FOR AGRICULTURE develop a low-cost but accurate and portable wheel load scale for use by farmers	T. Bergan International Road Dynamics Inc. Saskatoon	ADF One Year 35,000	20,000
* ADF-V-0360 ROOLETTE SEEDS HOT-AIR GRAIN DRYER build a grain dryer to have a large holding capacity to eliminate accessories, make dryer effortless to clean out and as labour free as possible	R. Loyns Roolette Seed Farms Ltd. Naicam	ADF One Year 9,655	9,655

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-V-0420 1.3-14 EQUIPMENT INNOVATIONS FOR INNOCULATING PULSE SEEDS assess current methods and equipment used for innoculating pulse seeds as to their effectiveness, convenience and accuracy	M. Jorgenson Prairie Agr. Machinery Institute Humboldt	ERDA One Year 16,210	6,228
ADF-V-0457 JAPANESE PHYTOSANITARY PROTOCOL - FOR HEAT TREATMENT OF LONG FIBRE HAY develop the necessary phytosanitary protocol so that long fibre hay of all types can be exported to Japan and other Pacific Rim countries	G. Dalziel White Fox Forages Ltd. White Fox	ADF One Year 11,000	5,500
STRUCTURES AND ENVIRONMENT			
ADF-V-0243 DEVELOPMENT OF A VENTILATION SYSTEM TO REDUCE PNEUMONIA IN WARM CALF HOUSES develop and test air filtration system which will reduce the concentration of aerosol particles; develop an integrated ventilation system that will prevent drafts and will be energy efficient to operate	M. Bantle Bantle Engineering Research Saskatoon	ADF Three Years 30,160	20,000
ADF-V-0282 DESIGN OF A PRODUCTION FACILITY FOR ANIMAL HEALTH-CARE PRODUCTS TO BE MARKETED INTERNATIONALLY develop a preliminary design for a production facility for animal health care products which meets the specifications of the United States Department of Agriculture	S. Acres Biostar Inc. Saskatoon	ADF One Year 25,000	10,000
ADF-V-0357 DEVELOPMENT OF A MIST COOLING SYSTEM TO REDUCE MORTALITY IN POULTRY BARNS develop an extension bulletin, computer program, and a medium pressure mist cooling system to reduce mortality in poultry barns	C. Bennett Saskatchewan Poultry Council Saskatoon	ADF Two Years 20,950	13,950
ADF-V-0398 DEVELOPMENT OF APPLICATION METHODS FOR MANURE LAGOON COVERINGS investigate and assess various methods for applying odor controlling cover materials to manure lagoons	D. Lischynski Prairie Agr. Machinery Institute Humboldt	ADF One Year 32,400	24,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ENGINEERING - OTHERS			
ADF-V-0269 AN ECONOMICAL, SELECTIVE IDENTIFICATION SYSTEM FOR LIVESTOCK an electromagnetic tagging system to selectively identify livestock and aid in management decisions	J. Brodsky Regina	ADF Two Years 26,000	20,000
FOOD ADVISORY SERVICES			
FOI-V-0006 MARKETING EXTENSION - FOOD PRO DATA BASE PROMOTION, UPDATE AND OPERATION update, promote, operate and market Food Pro Data Base on food processing for home and beginning cottage industry in rural Saskatchewan	J. Benesh Food Focus Saskatoon, Inc. Saskatoon	One Year 24,000	17,000
FOI-V-0039 FOOD PROCESSING EXTENSION - SASKATCHEWAN FOODTALK PROGRAM continue work carried out since April 1, 1987 under ADF Project Nos. V-86-06-0061 and V-88-06-0195 which established and sustained the Saskatchewan Foodtalk program	G. Jones Applied Microbiology and Food Science University of Saskatchewan	Three Years 450,000	230,000
ADF-V-0191 PRODUCT TRAINING AND DEVELOPMENT CENTRE establish a training and development centre for use by the baking industry	D. Loewen CSP Foods Saskatoon	ADF One Year 50,000	15,000
* ADF-V-0195 FOOD PROCESSING EXTENSION - SASKATCHEWAN FOODTALK PROGRAM extend and expand the work carried out between April 1, 1987 and March 30, 1989 under the ADF project V-86-06-0001, Food Processing Extension Coordinator	J. Russell Applied Microbiology and Food Science University of Saskatchewan	ADF One Year 130,000	25,709
ADF-V-0262 SASKATCHEWAN FOOD PRODUCT INNOVATION PROGRAM establish an applied research and new product development capability which will support expansion and diversification of the meat processing industry in Saskatchewan	A. McCurdy Applied Microbiology and Food Science University of Saskatchewan	ADF Three Years 432,000	210,725

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0281 FOOD PROCESSOR CONTACTS DIRECTORY publish and distribute a Saskatchewan food processor contracts directory	J. Russell Applied Microbiology and Food Science University of Saskatchewan	ADF One Year 14,370	12,543
* ERD-V-0415 5.1-20 FOOD PRO-DATABASE develop a computer database system on food processing for home and beginning cottage industry in rural Saskatchewan	J. Benesh Food Focus Saskatoon Inc. Saskatoon	ERDA One Year 38,000	8,000
FOOD MARKET IDENTIFICATION AND DEVELOPMENT			
FOI-V-0001 PROMOTING SASKATCHEWAN JAMS AND JELLIES - PRAIRIE PRESERVES unique marketing approach, jams and jellies	Food Focus Saskatoon Inc. Saskatoon	One Year 135,000	123,000
FOI-V-0005 PROCESSING TO WIN develop a management course to improve the business management skills of Saskatchewan processors; identify management areas which require further development	L. Braun Food Focus Saskatoon Inc. Saskatoon	One Year 30,500	24,500
FOI-V-0007 MARKETING AND PROMOTION - NUTRITIONALLY ENHANCED BANNOCK MIX conduct a marketing and promotional exercise to introduce a nutritionally enhanced flour-based bannock mix	K. Dillen JLM Foods Ltd. Saskatoon	One Year 20,000	15,000
* FOI-V-0009 SHOWCASE SASKATCHEWAN conduct market research for new products; showcase food products to consumers; identify and develop potential markets for specialty food products; increase product sales	J. Benesh Food Focus Saskatoon Inc. Saskatoon	One Year 6,000	6,000
FOI-V-0016 ALTERNATIVE CULTIVATING AND PROCESSING TECHNIQUES OF SWEET BASIL TO PROVIDE YEAR-ROUND SUPPLY TO THE FOOD INDUSTRY development of cultivation and processing techniques to market basil year-round	M. McNeil The Bonny Garden Wynyard	One Year 11,000	4,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* FOI-V-0017 LABEL DESIGN - MEADOWLARK PRODUCTS LTD. design upgraded labelling for jams and jellies in order to compete in out-of-province markets	B. Lacelle Meadowlark Products Ltd. Cadillac	One Year 1,500	1,283
* FOI-V-0018 LABEL DESIGN - HARVEST PIE COMPANY LTD. design upgraded labelling for jams and jellies in order to compete in out-of-province markets	P. Sotropa Harvest Pie Company Ltd. Pangman	One Year 1,500	1,500
* FOI-V-0019 LABEL DESIGN - GRAMMA BEP'S POSIES AND PASTRIES design upgraded labelling for jams and jellies in order to compete in out-of-province markets	B. Hamer Gramma Bep's Posies and Pastries Swift Current	One Year 1,500	1,500
* FOI-V-0020 LABEL DESIGN - HILL VALLEY FARM design upgraded labelling for jams and jellies in order to compete in out-of-province markets	P. Baynton Hill Valley Farm Lloydminster	One Year 1,500	1,500
* FOI-V-0021 LABEL DESIGN - SILKE VERWIMP design upgraded labelling for jams and jellies in order to compete in out-of-province markets	S. Verwimp Silke Verwimp Outlook	One Year 1,500	1,500
* FOI-V-0022 LABEL DESIGN - GANE APAIRIES LTD. design upgraded labelling for jams and jellies in order to compete in out-of-province markets	L. Gane Gane Apairies Ltd. Nipawin	One Year 1,500	1,500
* FOI-V-0023 LABEL DESIGN - MARI-MAID design upgraded labelling for jams and jellies in order to compete in out-of-province markets	C. Steiner Mari-Maid Hague	One Year 1,500	1,500
* FOI-V-0026 LABEL DESIGN - MASTER FOODS upgrade labelling to compete in out-of-province markets	T. Taylor Master Foods Nipawin	One Year 1,500	1,389
FOI-V-0029 DOMESTIC FOWL, GAME BIRD AND RABBIT MEAT DEVELOPMENT facilitate processing and marketing of domestic fowl, game birds and rabbits	E. Haussecker Watson Meat Processors Ltd. Watson	One Year 22,400	5,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* FOI-V-0034 LABEL DESIGN design upgraded labelling for jams and jellies in order to compete in out-of-province markets	B. Marshall Northern Delights Inc. Saskatoon	One Year 1,500	1,500
* FOI-V-0036 ENER-LIN develop a market sensitive package for Ener-lin which meets federal and provincial regulations	O. Gudehus Gudex Enterprises Inc. Regina	One Year 2,280	2,219
FOI-V-0042 SUPER GROW POINT OF PURCHASE MATERIAL design point of purchase material required for marketing	R. Landreau Super Grow Processing Inc. Saskatoon	One Year 10,000	883
FOI-V-0044 GRAMMA BEP'S GOURMET FOODS - INVESTIGATION FOR DIVERSIFICATION AND EXPANSION diversify and expand Gramma Bep's Gourmet Foods	B. Hamer Gramma Bep's Gourmet Foods Swift Current	One Year 8,500	2,174
FOI-V-0052 INTRODUCING CREAMED HONEY TO THE JAPANESE CONSUMER test the Japan market for Saskatchewan creamed honey, and if successful supply that market	A. Tremblay Tremblay Apiaries/Pippin Bee Culture Christopher Lake	One Year 7,500	3,760
FOI-V-0054 TO STUDY THE MARKET POTENTIAL WITHIN THE PIZZA (FRESH, FROZEN, RELATED PRODUCTS) INDUSTRY FOR NATURAL HERBAL EXTRACT determine the market potential for natural flavoured herbal extract within the retail pizza and related pizza products industry in Canada and the United States	K. Poulgouras Saskatoon	One Year 9,300	2,000
FOI-V-0061 COUNTRY BOY SAUSAGE - SPECIALTY MEATS PROJECT expand current product lines through introduction of new specialty meats	L. Petrisor Country Boy Sausage and Fine Meats Regina	One Year 4,600	3,384
* ADF-V-0185 INSTITUTIONAL MARKETING - NATURE BERRY introduce northern Saskatchewan food products institutional market Toronto, Ottawa, Vancouver	G. & E. Keller Nature Berry Incorporated La Ronge	ADF One Year 5,000	3,014

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0240 WILD HARVEST - ASSESSING THE POTENTIAL OF SASKATCHEWAN WILD FOODS determine the feasibility of marketing a comprehensive line of high quality products based on wild foods, wild and home-cultivated plants and crafts based on "products of the forest" through a coordinated marketing effort	D. Mitchell Northern Harvest Enterprises Regina	ADF One Year 12,500	10,000
* ADF-V-0271 CANOLA OIL AND MEAL PROMOTION PROGRAM development of publications, advertisements and displays promoting canola products	W. Miller Canola Council of Canada Winnipeg	ADF Two Years 30,000	25,166
ADF-V-0274 DELSA FOODS MARKETING development, production and distribution of marketing vehicles and information regarding Delsa Foods	B. Haack Delsa Food Processors Inc. Delisle	ADF One Year 30,000	20,584
* ADF-V-0292 MARKETING STUDY FOR HERBS AND SPICES market research to determine the demand for herbs and spices in Saskatchewan	H. Amundson District #33 ADD Board Shellbrook	ADF One Year 3,850	3,850
* ADF-V-0320 INVESTIGATE MARKET FOR ORGANIC FOODS AND IDENTIFY OPPORTUNITIES FOR SASKATCHEWAN investigate the market for organic foods and to identify opportunities for Saskatchewan	E. Weymes Faculty of Administration University of Regina	ADF One Year 15,000	14,479
* ADF-V-0350 THE MANUFACTURE AND MARKETING OF A NEW STEAK SAUCE MADE WITH SASKATCHEWAN GROWN INGREDIENTS perform a feasibility and marketing study of a new steak sauce made with Saskatchewan grown ingredients	D. Fritz M & T Enterprises Regina	ADF One Year 5,000	5,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-V-0446 1.4-30	L. Donais	ERDA	9,137
GATHERING, ACCUMULATING, PROCESSING, PACKAGING AND MARKETING NORTHERN WILD PRODUCTS	L. Donais Prince Albert	One Year 14,074	
establish a network of buying stations in Northern Saskatchewan, train qualified buyers, develop transportation between buying stations, enhance existing processing systems, and develop further internationial markets			
FOOD PRODUCT DEVELOPMENT AND PRODUCTION			
* FOI-V-0008	A. McDonald		11,056
DERBY CONE CO. INC.	Derby Cone Inc.	One Year	
manufacture, market and distribute ice cream cones and other confectionery items	Regina	15,000	
FOI-V-0010	M. Zurevinsky		2,297
COUNTRYSIDE NOODLE HOUSE	M. Zurevinsky	One Year	
produce and market home-made noodles	Meacham	8,000	
FOI-V-0012	G. & C. Franson		10,000
COMMERCIAL SCALE PRODUCTION OF WHEAT NUTS, SNACK	Tranquility Research Inc. Saskatoon	One Year 50,000	
investigate the large scale commercial production of wheat nuts			
FOI-V-0014	J. Oddo		2,500
PROCESSING & DISTRIBUTION OF PRE-MIXED, GLUTEN-FREE BAKING FLOUR	J & J Specialty Bakery Regina	Two Years 15,000	
test market specialty baked goods consisting of gluten-free ingredients			
FOI-V-0024	I. McGrath		8,000
PRODUCE & TEST MARKET SEVERAL TYPES OF CHEWING GUM PRODUCTS MADE FROM WHOLE HARD SPRING WHEAT	McGrath Farms Leroy	One Year 23,777	
develop an edible chewing gum using whole hard spring wheat and vital gluten as a gum base substitute and test these products in the marketplace			

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
FOI-V-0028 WILD HIGH-BUSH CRANBERRY PRODUCTS DEVELOPMENT PROJECT facilitate a local products food fair with the wild high-bush cranberry which will help to assemble the best possible local products	W. Derenowski District #25 ADD Board Hudson Bay	One Year 3,750	3,000
* FOI-V-0046 CONSUMER TASTE PANEL FOR INITIAL MARKET TEST OF FISHERMAN'S SHORELUNCH DRY BATTER determine the public acceptability of dry batter through a consumer taste panel	P. Howard Minor Bay Camps Minton	One Year 3,310	2,161
FOI-V-0049 MARKET RESEARCH AND DEVELOPMENT OF PACKAGING AND MARKETING MATERIALS TO FURTHER DEVELOP DOMESTIC AND INTERNATIONAL SALES develop a new line of chocolate boxes that would increase ability to compete in national and international markets	A. Hardenne Harden & Huyse Belgian Choc.Inc. Saskatoon	One Year 57,000	45,600
FOI-V-0055 EFFECTS OF CABBAGE CULTIVARS ON THE SHELF LIFE OF COLESLAW MIX determine the post-shredding shelf life of the cultivars of cabbage grown in Saskatchewan	J. Langford S & J Processing Ltd. Craven	One Year 10,000	4,000
FOI-V-0057 MARKETING STUDY - WILD RICE PRODUCTS market wild rice products in eastern Canadian market	A. Solheim Northern Lights Wild Rice Inc. Saskatoon	One Year 13,440	10,000
ADF-V-0194 PEAOLA CHIP PRODUCTION AND MARKETING prepare peaola chips (pea chips fried in canola oil) via the procedure established by the National Research Council, Patent No. 1021994	G. Paik Kelvington Processors Ltd. Kelvington	ADF One Year 100,000	35,000
ADF-V-0228 RIESE INVESTMENTS LTD. processing and marketing popped wild rice snack mix	L. Riese Riese Investments Ltd. La Ronge	ADF One Year 20,000	10,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0279	M. Pickard	ADF	8,000
SECONDARY PROCESSING OF BARLEY AND OATS FOR FOOD, FEED AND INDUSTRIAL APPLICATIONS - STAGE ONE	CSP Foods Ltd. Saskatoon	One Year 8,000	
assess the potential for value-added processing of oats and barley			
* ADF-V-0286	P. Kolodziejczyk	ADF	98,375
LIPOSOME PRODUCTION FROM CANOLA AND EGGS	POS Pilot Plant Corporation Saskatoon	One Year 98,375	
extract and purify phospholipids from eggs and canola gums which are suitable for the creation of liposomes for the pharmaceutical industry			
* ERD-V-0384 1.4-22	J. Polson	ERDA	10,000
DEVELOPMENT OF HONEY/FRUIT BLEND	Northern Delights Inc.	One Year	
develop a blend using Saskatchewan produced honey and wild fruits	Saskatoon	45,000	
ADF-V-0393	D. Grant	ADF	17,000
THE EFFECT OF CURING CONDITIONS ON THE QUALITY OF WILD RICE	Dept. of Chemistry University of Saskatchewan	One Year 24,700	
study the effects of varying the processing parameters in the curing of wild rice and to determine how they affect the quality of the end product			
ADF-V-0461	W. Reed	ADF	14,100
WILD RICE HARVESTING METHODS AND THEIR EFFECT ON YIELD, LOSSES AND QUALITY	Dept. of Agricultural Engineering University of Saskatchewan	One Year 21,100	
measure effect that harvesting frequency and travel speed has on yield, seed quality and losses; evaluate a redesigned speedhead; continue development of and field test a lower cost travel speed indicator			
FOOD - OTHERS			
FOI-V-0070	L. Gray		3,000
FOOD AND BEVERAGE '91 - A SHOWCASE OF SASKATCHEWAN FOODS AND BEVERAGES	Saskatchewan FOODTALK Saskatoon	One Year 6,000	
heighten consumer, processor and retailer awareness concerning the wide variety of Saskatchewan food and beverage products, by means of a showcase			

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
COMMUNICATIONS			
SOA-V-0002 PROVINCIAL COMMUNICATIONS Canada-Saskatchewan soil conservation activities	H. Johnson Saskatchewan Agriculture and Food Regina	Four Years 500,000	185,883
ADF-V-0069 COMMUNICATIONS give support for a communications package for the ADF	H. Johnson Saskatchewan Agriculture and Food Regina	ADF Four Years 725,900	329,426
SOA-V-0147 A SYMPOSIUM AND WORKSHOP ON "GIS AND PRAIRIE AGRICULTURE" through a symposium and workshop to demonstrate the application of geographic information systems for the management of agricultural land in Saskatchewan	D. Sauchyn Department of Geography University of Regina	One Year 6,470	4,300
ADF-V-0209 ADF NEWS provide technology transfer for ADF projects	C. Sebastian Communications by Carol Kendal	ADF One Year 21,000	2,454
ADF-V-0225 COMMUNICATIONS BY CAROL provide communications opportunities as requested by the Agriculture Development Fund	C. Sebastian Communications by Carol Kendal	ADF One Year 10,000	1,300
* ERD-V-0231 2.6-06 ALL CANADIAN HEREFORD DISPLAY CENTRE advertise the display centre concept through visits, advertising and video promotion	S. and C. Palmer EXL Ranch Ltd. Marsden	ERDA Two Years 25,000	3,301
* ADF-V-0238 SASKATCHEWAN RESOURCE SERIES develop an educational program between the agriculture industry and Saskatchewan Education consisting of produced, written and video supplementary teaching activities for all Saskatchewan elementary schools	C. Donnelly Sunspirit Productions Regina	ADF One Year 10,000	10,000
* ADF-V-0241 PLANTING FOR PROFIT VIDEO bring to Canadians and the world how Canadian agriculture is performed from planting to the final report of raw goods or processed products	G. Hysteun Saskatchewan Seed Growers Association Spalding	ADF One Year 5,000	2,500

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0256 PROACTIVE COMMUNICATIONS CONSULTANTS provide communications services to ADF	K. Omoth Proactive Communications Consultants Milestone	ADF Two Years 91,800	40,210
ADF-V-0413 CANADIAN WESTERN AGRIBITION'S TEACHER PACKAGE, PHASE II produce booklet for teachers on agriculture activites	V. Headford Canadian Western Agribition Regina	ADF Two Years 33,500	16,500
EXTENSION			
* ERD-V-0180 5.2-06 EDUCATIONAL AGRICULTURAL POLICY CONFERENCE hold policy conferences featuring discussion of current issues with nationally recognized experts	G. Lee College of Agriculture University of Saskatchewan	ERDA Three Years 60,000	20,000
ADF-V-0208 DEVELOPMENT PROGRAM - AGRICULTURE INSIGHT FOUNDATION develop and implement awareness and educational programs for the agriculture industry	P. Hodgeman Agriculture Insight Foundation Inc. Saskatoon	ADF Three Years 211,000	120,000
ADF-V-0252 PORK INDUSTRY TECHNOLOGY TRANSFER PROGRAM enhance the productivity, efficiency and profitability of the pork industry in Saskatchewan through the development and distribution of quality management information	Sask. Pork Producers Marketing Board Sask. Pork Producers Marketing Board Saskatoon	ADF Two Years 100,000	66,000
* ERD-V-0412 1.4-28 WILD FOOD HARVEST IN NORTHERN SASKATCHEWAN continue to provide an extension service for the present foraging system and expand it	K. Brunner Kalya Brunner Consulting Prince Albert	ERDA One Year 84,900	34,900
ADF-V-0423 OLD MACDONALD'S FARM CHILDREN'S CENTRE establish Old MacDonald's farm demonstration site at Regina Exhibition Grounds for viewing during performance of the Regina Horse Show	D. Fiddler Regina Exhibition Association Regina	ADF Two Years 8,550	2,425

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
RURAL COMMUNITY DEVELOPMENT			
ADF-V-0266 SASKATCHEWAN RURAL FUTURES PROJECT: CHARTING THE 1990S AND BEYOND create and market a rural Saskatchewan vision and action plan	H. Baker Sask. Committee on Rural Area Development Saskatoon	ADF One Year 20,000	15,000
* ERD-V-0276 5.2-23 SASKATCHEWAN ADVANCED COMMUNITY LEADERSHIP INSTITUTE improve leader knowledge and skills relating to rural development through provision of workshops and related training materials in the areas of community economic development, communication, program planning and marketing	J. Derbowka Sask. Committee on Rural Area Development Saskatoon	ERDA Two Years 20,000	10,000
SAFETY			
ADF-V-0144 PILOT STUDY IN SASKATCHEWAN ON THE RELATIONSHIP BETWEEN PESTICIDES AND CANCER determine the relationship of agricultural chemicals, including 2,4-D and certain types of cancer including soft tissue sarcoma, lymphoma and multipe mycloma	J. Dosman University of Saskatchewan Centre for Agricultural Medicine	ADF One Year 20,000	4,000
ADF-V-0235 FARM SAFETY PROGRAMS/WORKSHOPS FOR THE FAMILY provide an environment to reduce injuries and fatalities due to farm accidents	B. Rowley Saskatchewan Safety Council Regina	ADF Two Years 87,900	50,000
TRAINING			
* ADF-V-0330 A SASKATCHEWAN 4-H "LEARN AND EARN" PROJECT increase leadership skills of 4-H members through starting a business; help young people learn organisational and business related skills; make youth aware of a variety of career options	D. Hauer Saskatchewan 4-H Council Saskatoon	ADF One Year 7,000	7,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
HUMAN RESOURCES - OTHERS			
AWB-V-0001 AG-WEST BIOTECH INC. support and encourage the development of biotechnology to the benefit of Saskatchewan's agricultural industry	M. McLaughlin Ag-West Biotech Inc. Saskatoon	Six Years 2,100,000	420,000
* ADF-V-0258 CELEBRATIONS 90 promote education and create public awareness of the advances in technology transfer	D. Wieler Future Corporation Regina	ADF One Year 300,000	150,000
ADF-V-0478 THE RURAL FAMILY: DEVELOPING SKILLS FOR CHANGE - SASKATCHEWAN INDIAN AGRICULTURE PROGRAM INC. COURSES set up four rural family courses for native couples to help address the socio-economic needs of rural families, cope with various changes from community, economy and family members and enhance business and interpersonal skills	E. Dessouki Sask. Indian Agriculture Program Saskatoon	ADF One Year 20,000	4,000
ADF-V-0481 HUMAN RESOURCE DEVELOPMENT IN RURAL SASKATCHEWAN have local leaders further develop their leadership skills to facilitate value-added processing, development and diversification at the local level	T. Mathieson District #21 ADD Board Watson	ADF One Year 30,000	24,000
AQUACULTURE			
* ADF-V-0296 SPAWNING AN ARCTIC CHARR BROODSTOCK (AN INTEGRAL PART OF BROODSTOCK DEVELOPMENT) successfully spawn some 450 adult arctic charr broodstock and to strip the immature eggs out of some 1,100 juvenile arctic charr broodstock	J. Bielka The Arctic Fish Company Inc. Waldheim	ADF One Year 15,000	15,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
BEEF			
* ERD-V-0004 2.4-10 BEEF UPGRADING MANAGEMENT PROGRAM (BUMP) produce a beef management manual for use in a pilot project that will demonstrate the value of good management systems	P. Rempel Saskatchewan Agriculture and Food Regina	ERDA Three Years 176,750	26,549
SHEEP AND GOATS			
* ERD-V-0211 2.4-19 SASKATCHEWAN REGIONAL SHEPHERDS' PROGRAM provide on-farm training and technical assistance in shepherd skills and flock management to new producers and establish that a regional shepherds' program would benefit the sheep industry beyond the cost of the project	J. Koal Saskatchewan Sheep Development Board Saskatoon	ERDA Two Years 32,000	7,000
* ADF-V-0365 DAIRY GOAT DEVELOPMENT SEMINAR update the industry on market developments in goat milk, cheeses and livestock exports; promote and publish standards of excellence; demonstrate and practise goat breeding by A-I; and present on-farm cheese making	L. Spahr Saskatchewan Goat Breeders' Association Saskatoon	ADF One Year 4,600	4,600
HORSES			
* ADF-V-0255 A STUDY OF SASKATCHEWAN'S HORSE RACING INDUSTRY TO DEVELOP A LONG RANGE PLAN FOR THE INDUSTRY develop a long term plan for the Saskatchewan horse racing industry that will lead to a viable and self-sustaining industry in Saskatchewan	D. Murray Derek Murray Consulting Associates Ltd. Regina	ADF One Year 95,800	54,353

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
SWINE			
* ERD-V-0303 2.2-20 R.O.P SWINE TEST STATION market research to identify the target group for test station use; promote use of and merits for performance testing; maintain station at capacity every testing period; monitor effects of electronic marketing	L. Zimmer Sask. Swine Breeders' Assoc. Regina	ERDA One Year 10,000	10,000
ADF-V-0411 IDENTIFICATION OF ENVIRONMENTAL ISSUES CONFRONTING THE SASKATCHEWAN PORK INDUSTRY compile data on environmental acceptability of pork production units; identify safe, compatible and acceptable management practices; produce manual on procedures for establishing a hog operation	J. Morris Sask. Pork Producers Marketing Board Saskatoon	ADF One Year 22,500	22,500
LIVESTOCK - OTHERS			
ERD-V-0023 2.1-06 REPRODUCTIVE DATA COLLECTION develop a computer data collection system to monitor the reproductive status of each sector of the livestock industry	A. Hingston Saskatchewan Agriculture and Food Regina	ERDA Four Years 42,120	1,782
ADF-V-0353 FARM ANIMAL WELFARE IN SASKATCHEWAN - POLICY DEVELOPMENT EDUCATION AND INVESTIGATION OF ABUSE develop a comprehensive protection program for farm animal welfare	F. Wach Sask. Society for Prevention of Cruelty to Animals Saskatoon	ADF Three Years 180,000	100,000
ADF-V-0452 PHEASANT MARKET DEVELOPMENT develop the western Canadian market for pheasants	J. Wilson Commercial Pheasant Producers Cooperative Ltd Kerrobert	ADF One Year 17,000	12,000
ECONOMICS RESEARCH			
* ADF-V-0273 FEASIBILITY OF GEOGRAPHIC INFORMATION SYSTEMS FOR ADF AND SASK. AGRICULTURE AND FOOD cost/benefit, feasibility, opportunities for efficiency with geographic information systems	V. Oliver Generation 5 Technology Ltd. Regina	ADF One Year 41,400	41,400

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0276 NORTH EAST TERMINAL LTD. FEASIBILITY STUDY feasibility of a handling, processing and packaging facility for cereal, oilseed, special and organic crops in northeast Saskatchewan	M. McChesney North East Terminal Ltd. Kelvington	ADF One Year 37,500	37,500
ADF-V-0468 DETERMINATION OF SUPPORT TO HOG AND BEEF PRODUCTION FROM UNITED STATES GRAIN REGIMES, AND ITS IMPACT ON THE CANADIAN INDUSTRY determine how U.S. hog and beef producers purchase feed grains under the Farm Bill; quantify amount by which they are advantaged by their regime than western Canada, and determine how their program would be evaluated by U.S. law	W. Furtan Agricultural Economics University of Saskatchewan	ADF One Year 27,500	11,000
FARM MANAGEMENT			
ADF-V-0289 FARMING TO WIN II increase competitiveness by enhancing business management skills in the agriculture sector	J. Riemer Sask. Assoc. of Agricultural Societies and Exhibitions Inc. Saskatoon	ADF One Year 367,300	319,300
ADF-V-0290 FARM MANAGEMENT INITIATIVES - RISK MANAGEMENT provincial programming - for the federal/provincial farm management agreement	K. Lewis Sask. Assoc. of Agricultural Societies and Exhibitions Inc. Saskatoon	ADF Two Years 941,250	504,300
ADF-V-0293 DATA ANALYSIS, INFORMATION AND PROGRAM CO-ORDINATION FOR ECONOMIC IMPROVEMENT IN BEEF HERDS promote beef herd health and herd management through enhanced veterinary utilization by producers and co-ordinate livestock and management specialists to assist producers with production, finances and marketing	G. Bowes Saskatchewan Livestock Association Regina	ADF Three Years 261,000	89,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0306 FARM BUSINESS PLANNING SOFTWARE FMI provide financial planning package "Farm Business Analyst" to farmers in Saskatchewan at no cost; provide manuals and support to registered users of software	T. McDonald Credit Union Financial Services Inc. Regina	ADF One Year 48,000	48,000
ADF-V-0307 TOP MANAGEMENT PROGRAM - FARM MANAGEMENT INITIATIVES allow Top Management Program to be offered to additional farmers to increase the reliability and accuracy of the data collected	T. Thorson Thorson Information Services Pensance	ADF Three Years 64,950	31,650
ADF-V-0308 WINNING WITH BEEF II - FARM MANAGEMENT INITIATIVES provide an instructional course for producers incorporating the subjects of production management, farm management and marketing	R. Madsen Saskatchewan Livestock Association Regina	ADF Three Years 170,100	79,200
ADF-V-0309 PORK MANAGEMENT INITIATIVES, AS PART OF FARM MANAGEMENT INITIATIVES build a data base of production and financial information for pork production units which will improve the business management skills of pork producers; create a computer model	J. Morris Sask. Pork Producers Marketing Board Saskatoon	ADF Two Years 139,500	60,000
ADF-V-0310 MAXIMUM ECONOMIC YIELD CLUBS - FARM MANAGEMENT INITIATIVES develop, promote and establish maximum economic yield clubs	K. Miller Production Club Information Services Inc. Avonlea	ADF One Year 41,500	13,000
ADF-V-0311 FARM WOMEN'S PROGRAM - FARM MANAGEMENT INITIATIVES educate farm families to be better managers	K. Stangland Saskatchewan Women's Institute Saskatoon	ADF Three Years 369,300	335,700
* ADF-V-0329 FARM ESTATE AND RETIREMENT PLANNING develop scripted and filmed docudramas covering basic retirement strategies, intergenerational land transfers, family equitability, estate planning strategies	D. Chambers Sask. Assoc. of Rural Municipalities Regina	ADF One Year 80,000	80,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0396 FARM BUSINESS MANAGEMENT SELF STUDY PROGRAM development and delivery of a self study course for farmers on farm financial planning as well as a set of videos to support the self study program and for general distribution	M. Kunhaus Agriculture Inst. of Management in Sask. Inc. Regina	ADF Two Years 692,500	250,000
ADF-V-0429 SASKATCHEWAN WOMEN'S AGRICULTURAL NETWORK - REGIONAL CONFERENCES a forum to discuss farm issues; alleviate the loneliness of farm life; increase public awareness of organization; bring competent speakers to women; work towards retention of small towns in province	C. Olson Saskatchewan Women's Agricultural Network Saskatoon	ADF One Year 2,000	1,000
ADF-V-0453 FOCUS ON FARMING TODAY - FOCUS ON PLANNING increase competitiveness by enhancing business management skills in the agriculture sector	G. Caswell Agriculture Inst. of Management in Sask. Inc. Regina	ADF One Year 237,300	130,000
* ADF-V-0498 SASKATCHEWAN WOMEN'S AGRICULTURAL NETWORK PROVINCIAL CONFERENCE "BROADENING OUR HORIZONS" conduct a provincial conference to motivate women to become more innovative and broaden their horizons, participate in the agricultural industry, address current specific topics, networking, and exchange information	C. Olson Saskatchewan Women's Agricutural Network Saskatoon	ADF One Year 5,000	5,000
SURVEY			
FOI-V-0032 FOOD INDUSTRY NEEDS ASSESSMENT SURVEY AND CONTRIBUTION TO ECONOMY STUDY collect private sector opinion on the type of development assistance required by the industry; collect original data on the sub-sector's contribution through contact with each food processing enterprise	R. Garven Harvest Foods Ltd. Saskatoon	One Year 46,293	9,300

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0295 DETERMINE GROWER OPINION ON THE NEED FOR AND THE SUBSTANCE OF A CANOLA DEVELOPMENT BOARD through public meetings and telephone survey solicit grower opinion regarding a canola development board plan	K. Lewis Saskatchewan Canola Growers Association Saskatoon	ADF One Year 75,072	75,031
* ADF-V-0469 NORTH EAST TERMINAL LTD. MARKETING SURVEY AND ANALYSIS conduct marketing survey to determine feasibility of an inland terminal in the Wadena area	E. Arndt North East Terminal Ltd. Wadena	ADF One Year 10,000	2,863
EVALUATIONS			
* ADF-V-0291 FARMING TO WIN EVALUATION conduct a survey to determine the advertising and promotion needs of marketing business management training and skills program	C. Lewis Sask. Assoc. of Ag. Societies & Exhibitions Saskatoon	ADF One Year 49,800	49,800
* ADF-V-0299 FINAL EVALUATION CANADA/SASKATCHEWAN SUBSIDIARY AGREEMENT ON AGRICULTURAL DEVELOPMENT (ERDA) present an independent objective review of the Canada-Saskatchewan Subsidiary Agreement on agriculture development	Thomas Bryant Brystra Consultants Regina	ADF Two Years 23,888	23,888
* ADF-V-0316 ALLELIX MICROBIAL DIVISION REVIEW review allelix microbial	G. Wells Tradex International Consulting Corporation Calgary	ADF One Year 7,500	7,454
ECONOMIC CROP PRODUCTION EVALUATION			
* ERD-V-0369 5.2-24 DETERMINE THE ROLE OF PRODUCTION CLUBS AND ASSOCIATIONS IN THE TECHNOLOGY TRANSFER PROCESS determine why farmers join production clubs and what role such groups play in the technology transfer process in Saskatchewan	G. Hass Div. of Extension & Community Relations University of Saskatchewan	ERDA One Year 11,050	4,500

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0448 COMPUTERIZED CROP ROTATION CHART produce a computerized crop rotation chart to facilitate crop planning in Saskatchewan	H. de Gooijer H. de Gooijer Saskatoon	ADF One Year 11,000	6,000
ECONOMICS AND MANAGEMENT - OTHERS			
AWB-V-0006 BIOTECHNOLOGY - FEASIBILITY STUDIES conduct feasibility studies to increase biotechnology in Saskatchewan	M. McLaughlin Ag-West Biotech Inc. Saskatoon	Five Years 1,000,000	200,000
* ADF-V-0119 RURAL ECONOMIC DIVERSIFICATION identify and aid development of alternative/supplementary enterprises for individuals and rural communities to broaden their economic base	H. Amundson Northwest Regional Diversification Committee Shellbrook	ADF Two Years 6,300	281
ADF-V-0227 ADF DATABASE maintain a shared access computer on which the ADF results will appear	D. Morris/K. Kelly Westbridge Computer Corporation Regina	ADF One Year 132,000	114,187
* ADF-V-0300 CORPORATE AND MANAGEMENT PERSPECTIVES provide consulting services for the Department's Livestock Inspection Program	J. Penrod Corporate and Management Perspectives Lumsden	ADF One Year 9,400	7,276
AGRICULTURAL PRODUCT DEVELOPMENT (OUTPUT FROM AGRICULTURE)			
ADF-V-0367 TREATMENT OF REFUSE SCREENINGS TO IMPROVE THE NUTRITIONAL VALUE FOR CATTLE AND DESTROY WEED SEED VIABILITY. PHASE II determine the minimum combination of time, ammonia concentration and moisture content necessary to achieve adequate reduction in weed seed viability; determine the true nutritional value of ammoniated refuse screenings	S. McCormick Weyburn Inland Terminal Weyburn	ADF One Year 25,000	20,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
INDUSTRIAL PRODUCT DEVELOPMENT (INPUTS FOR AGRICULTURE)			
COM-V-0003 THE DEVELOPMENT AND COMMERCIALIZATION OF ADVANCED MICROBIAL PRODUCTS isolate, identify and characterize PGPR's (plant growth-promoting rhizobacteria); test, develop, register, test-market and commercialize the resulting products in Saskatchewan	R. Rennie ESSO Biologicals Saskatoon	Five Years 1,000,000	100,000
* ADF-V-0014 COMPRESSED NATURAL GAS (CNG) TESTING determine economic viability of CNG on Saskatchewan farms	M. Sulatisky Saskatchewan Research Council Saskatoon	ADF Two Years 905,000	20,000
* ADF-V-0249 DEMONSTRATION PROCESS FOR PRODUCTION OF GENERIC GLYPHOSATE to establish a working process scheme for generic glyphosate production	K. Naber Focus on Inputs Assoc. Inc. Melfort	ADF One Year 150,000	100,000
NON-FOOD MARKETING			
ADF-V-0439 ECONOMIC AND MARKET POTENTIAL FOR PRODUCTION OF DRIED FLOWERS IN SASKATCHEWAN assess economic and market potential for flowers which are grown, dried and arranged in Saskatchewan	D. Crawford Saskatchewan Dried Flower Association Netherhill	ADF One Year 20,000	7,175
ADF-V-0483 PROCESSED ALFALFA MARKET STUDY conduct a study on the supply and demand of processed alfalfa products in Japan, Korea and Taiwan to identify new market opportunities	J. Jacquemart Norquay Alfalfa Processors Ltd. Norquay	ADF One Year 22,925	10,000
NON-FOOD PROCESSING			
* ADF-V-0154 PRE-OPERATING DEVELOPMENT OF STRAW PARTICLE BOARD (PHASE II) conduct pre-operating assessments to determine the optimum operating and marketing configuration for manufacturing particle board from straw in Sasktchewan	B. Russell Solutions Management Inc. Regina	ADF Three Years 220,750	10,000

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-V-0278 A PREFEASIBILITY STUDY OF AN INTEGRATED VALUE-ADDED RURAL REGIONAL PROCESSING FACILITY develop one system concept of a value-added regional integrated processing facility	G. Olsen Technology Distributors International Ltd. Saskatoon	ADF One Year 31,664	20,000
ADF-V-0285 THE DEVELOPMENT OF AN EFFECTIVE BOVINE COLOSTRUM SUPPLEMENT develop a stable and effective colostrum supplement	B. Chelack Western College of Veterinary Medicine University of Saskatchewan	ADF Two Years 65,600	50,000
SOIL CONSERVATION, EROSION CONTROL			
SOA-V-0001 SAVE OUR SOILS provide the professional extension support required to enhance provincial implementation of the Save Our Soils Program	J. Kiss Sask. Soil Conservation Association Regina	Five Years 3,000,000	1,546,420
SOA-V-0003 SOILS ACCORD provide services to the Soils Accord through E. Aubin	J. Kiss Can.-Sask. Soil Conservation Program Regina	Four Years 156,450	70,084
SOA-V-0150 A ZERO-TILL CROPPING PROGRAM UTILIZING FALL APPLIED GRANULE HERBICIDES provide farmers with a weed control system which promotes soil conservation; evaluate usefulness of 2,4-D in combination with ethalfluralin	B. Eirk Chemagro Limited Saskatoon	Four Years 160,000	23,000
SOIL FERTILITY			
AWB-V-0004 BIOFERTILIZERS - PLANT GROWTH - PROMOTING RHIZOBACTERIA (PGPR'S) implement first stage of biostrategy (PGPR'S); develop and commercialize agbiologicals by 1992; license advanced technologies; low cost purchase and leveraged operation; payback investors based on successful technologies	R. Rennie Esso Chemical Canada Saskatoon	One Year 500,000	484,846

DEVELOPMENT

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-V-0409	R. Karamanos	ADF	16,484
SOIL FERTILITY ISSUES	Saskatchewan Soil Testing Laboratory	One Year	
provide field experimentation; extend findings to farming communities; respond to requests in addressing specific fertility and management requirements by growers	University of Saskatchewan	16,900	
SOIL TILLAGE			
* ADF-V-0157	J. Halford	ADF	7,200
CONSERVA PAK SEEDING TRIALS	Vale Farms Ltd.	One Year	
utilize the seeder to demonstrate spring seeding, evaluate the results and determine if detailed research is required to establish when tillage or a total minimum disturbance system should be used during spring seeding	Indian Head	36,000	
SOILS AND WATER - OTHERS			
* ADF-V-0021	L. McLean	ADF	146,023
SASKATCHEWAN IRRIGATION DEVELOPMENT	Agri-Farm Consultants Ltd.	Three Years	
CENTRE GENERAL SUPPORT SERVICES	Strongfield	450,000	
provide supplemental support services for numerous irrigation research and demonstration projects being managed by the Saskatchewan Irrigation Development Centre			

ADMINISTRATION

Title/Objective/Project Number	Contractor/Institution	Funding Agency/ Project Length	Funding
ADF ADMINISTRATION			
ADM-A-0001	Agriculture Development Fund		2,020,970
ADMINISTRATION	Agriculture Development Fund	Six Years	
administer the Agriculture Development Fund	Regina	10,652,700	
EVALUATIONS			
* ADM-A-0002	T. Bryant		5,000
RECOMMEDNATIONS FOR POST-APPROVAL	Brystra Consultants	One Year	
EVALUATION OF ADF PROJECTS	Regina	5,000	
evaluate the process of post-approval project evaluation and monitoring currently in place in ADF's project management system; identify options available			

DEMONSTRATION

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
BARLEY AND OATS			
* ADF-D-0589 BARLEY VARIETAL TRIAL test barley varieties under field conditions to see how they perform in District #36	D. Cubbon A. Ehle A. Ehle Farm Pierceland District #36	ADF One Year 518	110
* ADF-D-0590 BARLEY VARIETAL TRIAL test barley varieties under field conditions to see how they perform in District #36	D. Cubbon D. Marsh Marsh Farms Meadow Lake District #36	ADF One Year 538	110
OTHER OILSEEDS			
ADF-D-0217 SUNFLOWER VARIETY TRIALS determine the agronomic and economic suitability of sunflower production and compare new lines and varieties of sunflowers	G. McLean M. Firth Sask. Sunflower Growers Association Carievale District #41	ADF Three Years 24,330	1,650
* ADF-D-0516 SUNFLOWER DEMONSTRATION PROJECT - DISTRICT #37 show economic and agronomic feasibility of sunflower production in District #37	D. Shortt G. Munholland G. Munholland Farm Strasbourg District #37	ADF One Year 2,543	370
* ADF-D-0743 YIELD COMPARISON OF FLAX VARIETIES VIMY VS MORLIN OR NORMAN compare yield of vimy vs other commonly grown varieties	R. Springer B. Meinert ADD District #04 Board Shaunavon District #04	ADF One Year 800	800
* ADF-D-0773 PHOSPHOROUS PLACEMENT IN MUSTARD evaluate yield difference using different fertilizer placement methods in mustard	B. Rugg D. Thiessen D. Thiessen Aberdeen District #22	ADF One Year 779	552
FORAGE SEED			
ADF-D-0472 ALFALFA SEED PRODUCTION provide answers for alfalfa seed production industry problems	D. Cubbon H. Kennedy H. Kennedy Farm Meadow Lake District #36	ADF One Year 4,625	1,199

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0748 EFFECT OF ROW SPACING IN SEED PRODUCTION OF MEADOW BROMEGRASS, INTERMEDIATE WHEATGRASS AND CRESTED WHEATGRASS evaluate the effect of row spacing on seed yield of meadow bromegrass, crested wheatgrass and intermediate wheatgrass when plant population per row is held constant	L. Lee G. Duynisveld Newfield Seeds Limited Nipawin District #31	ADF Four Years 15,750	1,270
ADF-D-0749 RESIDUE MANAGEMENT IN GRASS SEED PRODUCTION evaluate the effects of burning after harvest, spring burning, and removing stubble to an inch height after harvest on the seed yield and production longevity of grass seed production	L. Lee G. Duynisveld Newfield Seeds Limited Nipawin District #31	ADF Four Years 19,800	4,550
FORAGES			
* ERD-D-0106 1.3-02 FORAGE CROP RESEARCH provide incentives to forage associations or district boards for forage research and demonstration projects	D. Gayton D. Gayton Saskatchewan Agriculture Regina	ERDA Three Years 1,150,000	12,500
* ADF-D-0229 NORGOLD SWEETCLOVER DEMONSTRATIONS demonstrate the value of low-coumarin variety of sweetclover for production and soil improvement	B. Sim S. Hrynkiw Ag Extension Board #19 Canora District #19	ADF Two Years 723	20
* ADF-D-0265 ALFALFA FORAGE PRODUCTION demonstrate the production potential of alfalfa as a cash crop with high fertilization rates	L. Lee O. Craig Ag. Extension Board #31 Nipawin District #31	ADF Three Years 9,715	100
* ADF-D-0367 ESTABLISHING FORAGES ON UNPRODUCTIVE POTHOLES seed saline lowland areas to salt tolerant forages to reduce the spread of salinity and to increase land productivity by forage use	J. Donovan D. Borys D. Borys Farm Yorkton District #12	ADF One Year 939	28

DEMONSTRATION

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0391 FERTILITY MANAGEMENT ON ALFALFA determine the economic application rates of phosphate on new stands of process alfalfa	D. Perrault D. Perrault R.M. #394 ADD Committee Hudson Bay District #25	ADF Three Years 7,877	3,134
* ADF-D-0460 FAIRLIGHT FORAGE PROJECT, 1988 provide information on suitability of grasses, legumes, cereal patterns, chemical weed control and benefits of forage crop fertilizer which will be useful to farmers in the region and other areas of Saskatchewan	J. Pollock W. Sauter Fairlight Forage Association Moosomin District #05	ADF One Year 24,510	7,962
* ADF-D-0467 ALFALFA FERTILIZER DEMONSTRATION demonstrate the benefits of applying fertilizer on alfalfa using soil test recommendations and the advantage that banding of the fertilizer has over broadcast application	W. Vanin J. Nelson Parkland Forage Cooperative Kamsack District #18	ADF Two Years 21,740	7,580
* ADF-D-0474 GRASSLAND FERTILIZATION PROJECT demonstrate in the northwest extension region research done by "Farming for the Future" in Alberta, using farmland banding knives to apply fertilizer on grassland	E. Johnson A. Morin District #30 Forage Association Spruce Lake District #30	ADF One Year 12,850	1,658
ADF-D-0495 ALFALFA VARIETIES DEMONSTRATION demonstrate and evaluate the superior yields that can be obtained from four new varieties of alfalfa	W. Vanin W. Kryklywics Parkland Forage Association Kamsack District #18	ADF Three Years 12,171	1,950
* ADF-D-0522 QUALITY HAY WITH SORGHUM-SUNDANGRASS demonstrate economics of producing high protein cattle hay for sale by growing pioneer 988 sorghum-sudangrass hybrid as a single crop and with oats	S. Adam G. Lefebvre G. Lefebvre Farm St. Brieux District #27	ADF One Year 954	84
* ADF-D-0527 LENTILS AS A NURSE CROP FOR CRESTED WHEAT GRASS see if lentils are beneficial to be used as a companion crop to grow crested wheat grass	J. Pollock P. Santo Santo Farm Whitewood District #05	ADF One Year 410	100

DEMONSTRATION

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0942 FORAGE PRODUCTION IN NORTH EAST SASKATCHEWAN increased forage production on hay and pasture land	G. Lidster G. Lidster North East Grassland & Forage Co-operative Carrot River District #31	ADF Three Years 52,274	22,570
* ADF-D-0549 KOCHIA QUALITY TEST determine viability and quality of kochia as a forage crop on poor quality land	J. Graham K. Miller Avonlea Soil Conservation Coop Avonlea District #08	ADF One Year 22,400	1,000
* ADF-D-0553 ROUND BALE SILAGE compare economics of round bale silage vs conventional round baling	K. Pedersen W. Lang W. Lang Tyvan District #14	ADF One Year 1,165	200
ADF-D-0612 FORAGES FOR PEAT SOILS look at longevity, yield, and adaptability of Meadow Brome, Creeping Meadow Foxtail, Meadow Foxtail, Vantage Reed Canary Grass, Venture Reed Canary Grass in peat soils	D. Cubbon R. Schroeder District #36 Loon Lake District #36	ADF Four Years 2,060	822
* ADF-D-0620 EVALUATION OF SORGHUM-SUDANGRASS AS A FORAGE CROP evaluate sorghum-sundangrass as a forage alternative in west central area	B. Rapp R. Shea Brock Fodder Mutual Ltd. Kindersley District #17	ADF One Year 600	250
ADF-D-0643 DISTRICT #1 ANNUAL FORAGE TRIALS measure the yield and quality of various annual forages grown in District #1	Brad Hanson B. Harris District #1 ADD Board Estevan District #01	ADF Three Years 21,779	7,655
* ADF-D-0651 DOUBLE CUT FORAGES AT BRIGHTSAND use a Mott harvester and weighing accessories for more timely, precise and efficient data collection on the BSFP plots and at other forage demonstrations in the NW subregion	V. Muller F. Woidyla Brightsand Forage Committee Turtleford District #38	ADF One Year 7,970	6,800

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0755	L. Lee	ADF	18,720
FORAGE PRODUCTION IN NORTH EAST SASKATCHEWAN	G. Lidster	One Year	
	North East Grassland & Forage Co-op Ltd.	23,408	
demonstrate techniques to increase forage production on hay and pasture land through on-farm demonstrations, seminars, equipment field days, and newsletters	White Fox		
	District #31		
* ADF-D-0782	M. Nickel	ADF	828
ALFALFA VARIETY TRIALS YIELD DATA	L. Kemp	One Year	
	District #34 ADD Board	980	
obtain yield and protein data from five alfalfa variety sites established in northwest Saskatchewan in 1989	North Battleford		
	District #34		
ORGANIC CROPS			
ADF-D-0682	J. Graham	ADF	82,528
THE VIABILITY OF ORGANIC FARM PRACTICES	M. Strayer	Three Years	
	Organic Crop Improvement Association	141,388	
determine if organic farming is a realistic alternative to conventional farming in Saskatchewan	Belle Plain		
	District #08		
MIXED VARIETY TRIALS			
* ADF-D-0513	B. Hansen	ADF	1,601
DISTRICT #1 VARIETY AND CROP TESTING	R. Hagel	One Year	
PROJECT	R. M. of Benson #35	7,901	
demonstrate and test alternate crops to diversify agriculture within agricultural District #1	Benson		
	District #01		
* ADF-D-0524	K. Pedersen	ADF	13,044
SEEING IS BELIEVING	R. Hins	One Year	
	R. Hins	15,500	
demonstrate newly registered canola and barley varieties, allowing producers to locally view the newest developments	Regina		
	District #14		
ADF-D-0616	B. Harvey	ADF	295,940
REGIONAL TESTING OF GRAIN VARIETIES FOR SASKATCHEWAN	B. Harvey	Three Years	
	Dept. of Crop Science & Plant Ecology	633,300	
obtain data on various spring grain varieties, on selected experimental lines; obtain regional adaptation data on advanced lines from the grain breeding programs; grow prelicensing trials for grain crops	University of Saskatchewan		
	Saskatoon		
	District #22		

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0676 ADAPTATION AND RECOMMENDATION TESTING OF FORAGE CROP VARIETIES IN SASKATCHEWAN obtain and provide data of forage crop varieties in major soil and climatic areas of Saskatchewan and provide regional extension agrologists with sites for extending variety comparison information to local producer groups	L. Lee K. Stoner Saskatchewan Forage Council Nipawin District #31	ADF Four Years 230,000	75,520
* ADF-D-0775 GRAIN & OILSEEDS VARIETY DEMONSTRATION determine the adaptability and suitability of various varieties of cereals and oilseeds to the black soil zone of the Yorkton east area	J. Donovan W. Kaeding W. Kaeding Churchbridge District #12	ADF One Year 1,000	599
CANOLA			
* ADF-D-0365 SULPHUR RESPONSE IN CANOLA demonstrate the value of sulphur application to crops requiring sulphur and those not requiring sulphur according to soil tests	D. Simmons M. Leontowicz M. Leontowicz Farm Ituna District #39	ADF One Year 753	580
* ERD-D-0389 1.3-13 CANOLA POTENTIAL IN SASKATCHEWAN - GROW WITH CANOLA ON-FARM DEMONSTRATIONS encourage growers to apply production techniques to create growers' commitment to increase productivity to assure the marketplace of a stable and adequate supply of canola and increase the average yields of canola	E. Bendig E. Bendig Saskatchewan Canola Growers Assoc. Melfort	ERDA One Year 100,000	80,000
* ADF-D-0478 DISTRICT #1 CANOLA MAXIMUM ECONOMIC YIELD (MEY) PROJECT test various canola production practices within the canola growing area of District #1 and demonstrate and create awareness of MEY practices among producers in order to promote MEY projects	B. Hansen R. Hagel R.M. of Benson #35 Benson District #01	ADF One Year 7,379	1,476

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0648 DISTRICT 01 CANOLA MAXIMUM ECONOMIC YIELD (MEY) PROJECT determine the effect of various production practices on the yield and economics of durum wheat production	B. Hanson B. Harris District 01 ADD Board Estevan District 001	ADF Three Years 19,456	7,049
* ADF-D-0668 FERTILITY - MAXIMUM ECONOMIC YIELD IN CANOLA illustrate how a well-planned fertility crop management program can result in a higher net economic return to a canola producer	D. England J. Bessel Sask. Canola Growers Association Saskatoon District 022	ADF One Year 16,676	13,340
* ADF-D-0670 CANOLA HARVEST STAGES AND METHODS determine effects on chlorophyll and green seed relating to harvest stage and method of harvesting	D. England J. Bessel Sask. Canola Growers Association Saskatoon District 022	ADF One Year 24,401	19,520
ADF-D-0832 CANOLA HARVEST STAGES AND METHODS determine effects on chlorophyll and green seed relating to harvest stages and method of harvesting	D. England J. Bessel Saskatchewan Canola Growers Association Saskatoon District 022	ADF Two Years 38,198	7,639
ADF-D-0833 WEED CONTROL IN CANOLA compare different alternatives in controlling weeds in canola, the economics, and impact on crop quality	D. England J. Bessel Saskatchewan Canola Growers Association Saskatoon District 022	ADF Two Years 51,168	10,233
ADF-D-0834 FERTILITY - MAXIMUM ECONOMIC YIELD IN CANOLA illustrate how a well planned fertility crop management program can result in a higher net economic return to a canola producer	D. England J. Bessel Saskatchewan Canola Growers Association Saskatoon District 022	ADF Two Years 43,420	8,685
PULSES AND BEAN CROPS			
ADF-D-0485 EVALUATION OF DRYLAND PRODUCTION OF GREAT NORTHERN BEAN evaluate the potential for production of great northern bean on dryland in west central Saskatchewan	W. Hurd H. Wagner Wagner Farm Company Ltd. Outlook District 016	ADF Three Years 8,199	2,783

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0496 EVALUATION OF THE PRIMORSKY LUPIN BEAN FOR SASKATCHEWAN demonstrate and evaluate on a field scale the Primorsky variety of lupin bean in Saskatchewan	L. Reeve M. Helgason Helgason Acres Ltd. Foam Lake District 620	ADF One Year 3,756	751
ADF-D-0690 EVALUATION OF INCREASED SEEDING RATES AND POST-EMERGENT LAND ROLLING FOR LENTIL PRODUCTION demonstrate yield of lentil at recommended and elevated seeding rates to identify plant population limitations. Monitor yield and development of lentils rolled at mid-juvenile and pre-flowering stage compared to unrolled	B. Van den Berg D. Jaques Sask. Pulse Crop Development Board Regina District 814	ADF Three Years 55,429	27,469
ADF-D-0708 NITROGEN FERTILIZER ON PEAS AND LENTILS demonstrate the economic thresholds at which fertilizer nitrogen should be used to establish pea and lentil crops	B. Van den Berg D. Jaques Sask. Pulse Crop Development Board Regina District 814	ADF Three Years 53,437	17,813
* ADF-D-0716 LUPIN BEAN EVALUATION evaluate the Primorsky variety of lupin bean under Saskatchewan conditions	L. Reeve M. Helgason M. Helgason Foam Lake District 620	ADF One Year 3,150	2,643
ADF-D-0732 DRYLAND BEAN PRODUCTION TRIAL - PINTO BEANS evaluate the production and economic merit of dryland dry bean production in the dark brown soil zone of Saskatchewan	D. Jacques D. Jaques Sask. Pulse Crop Development Board Regina District 814	ADF Two Years 29,000	20,440
ADF-D-0769 RISK AND ECONOMICS OF PINTO BEANS IN A ROTATION demonstrate the economic benefits of pinto beans in rotation as compared to wheat	D. Simmons M. Leontovics M. Leontovics Ituna District 839	ADF One Year 940	752
RANGE AND PASTURE			
ERD-D-0135 2.5-02 NEW PASTURE AND GRAZING TECHNOLOGIES conduct forage trials to demonstrate the effectiveness of new grassland management techniques	W. Pyle W. Pyle Saskatchewan Rural Development Regina	ERDA One Year 1,651,000	299,000

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0203 SAVORY GRAZING METHOD EVALUATION evaluate the economic returns, stocking rate and forage improvement of pasture land using the savory grazing method	B. Rapp D. Lothammer D. Lothammer Farm Estonia District 017	ADF Four Years 3,268	792
* ADF-D-0237 SAVORY GRAZING optimize production, conserve the soil and improve forage on native pasture land using the Savory Method of grazing	J. Ippolito T. Henderson T. Henderson Farm Lucky Lake District 040	ADF Three Years 3,216	922
* ADF-D-0446 DEMONSTRATION OF PASTURE RENOVATION TECHNIQUES FOR INCREASED FORAGE PRODUCTION IN SASKATCHEWAN demonstrate the relative performance of two zero-till pasture seeding systems in the three soil zones of Sask.	M. Jansen B. Harrigan Wimmer Grazing Co-op Watson District 021	ADF One Year 34,065	34,066
* ADF-D-0470 ROTATIONAL GRAZING AND SOIL FERTILITY MANAGEMENT TO MAXIMIZE BEEF PRODUCTION demonstrate the use of a rotational grazing pasture management system, determine animal performance in pounds gain per acre utilizing a rotational grazing system and demonstrate and determine forage yield and quality differences	D. Perreault G. Reed Gary Reed Farms Porcupine Plain District 025	ADF Two Years 8,535	9,315
ADF-D-0499 MEADOW BROMEGRASS GRAZING DEMONSTRATION establish four demonstration sites where the value of meadow bromegrass for grazing can be demonstrated using electric fencing and rotational grazing	W. Vanin W. Kryklywics Parkland Forage Association Kamsack District 018	ADF Two Years 10,396	5,043
* ADF-D-0588 CREEPING FOXTAIL DEMONSTRATION demonstrate the suitability of creeping foxtail as a pasture grass in a low slightly saline area	B. Swanson R. Zelenski R. Zelenski Farm Prince Albert District 032	ADF One Year 594	119

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0605 INTENSIVE ROTATIONAL GRAZING SYSTEM introduce and demonstrate the importance of rotational grazing system to Beardy's Indian Reserve pasture and to the Saskatoon district	H. Petracek B. Seesequasis Beardy's & Okemasis Pasture Duck Lake District #32	ADF Three Years 2,450	550
* ADF-D-0625 CLEARWATER GRAZING COOP - MEADOW BROMEGRASS DEMONSTRATION demonstrate the improved pasture performance of Meadow Bromegrass compared to regular pasture grass	B. Swanson R. Beckman Clearwater Grazing Coop Paddockwood District #32	ADF One Year 450	430
ADF-D-0637 GRAZING DEMONSTRATION PROJECT increase SWFA membership and participation by demonstration of: seeded and native grasses and alfalfa under different management practices	P. Gerwing Southwest Forage Association Southwest Forage Association Swift Current District #09	ADF Three Years 40,725	11,602
ADF-D-0638 EFFECT OF FERTILIZER ON YIELD AND NUTRITIVE CONTENT OF A TAME PASTURE IN THE DARK BROWN SOIL ZONE demonstrate an increase in protein and nutritional levels of mature tame grass stands through the use of fertilizer; evaluate growth response	D. Shortt L. Bezan Sask. Beef Cattle Performance Assoc. Inc. Regina District #14	ADF Three Years 3,775	866
ADF-D-0639 MORE BEEF FROM GRASS demonstrate intensive grazing systems, various forage species,, and economic evaluation of systems	Elaine Moats M. Freeman Lomond Beef Club Weyburn District #07	ADF Five Years 68,466	8,167
ADF-D-0659 DEMONSTRATION OF PASTURE RENOVATION TECHNIQUES FOR INCREASED FORAGE PRODUCTION IN SASKATCHEWAN demonstrate pasture renovation techniques	N. Janssen B. Herriges Wimmer Grazing Co-op Watson District #21	ADF Three Years 82,340	50,538
ADF-D-0672 ROTATIONAL GRAZING STUDY demonstrate how a rotational grazing system could increase the carrying capacity	P. Gerwing O. Wiebe O. Wiebe Herbert District #09	ADF One Year 1,890	1,394

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0719 PASTURE PRODUCTION OF ANNUAL CROPS evaluate eight different annual crops or combinations for pasture productivity as assessed by yearling steers and/or heifers	P. Gerwing R. Jensen Southwest Forage Association Swift Current District #09	ADF Two Years 21,000	1,082
ADF-D-0753 FORAGE AND GRAZING TRIAL demonstrate that relatively new forage species can be grown in the area, and to evaluate their longevity under grazing	H. Amundson D. & C. Christopherson D. & C. Christopherson Leoville District #33	ADF Two Years 2,394	784
ADF-D-0764 BEACON HILL CELL GRAZING demonstrate the benefits of cell grazing versus standard grazing practices	D. Cubbon K. Schamber District #36 ADD Board Goodsoil District #36	ADF One Year 4,860	1,900
ADF-D-0788 MEADOW BROME FOR PASTURE demonstrate the benefit of using Meadow Brome, a new superior pasture forage variety	D. Perrault J. Drechsler Drechsler Farms Hudson Bay District #25	ADF One Year 600	418
ADF-D-0797 GRAZING TECHNOLOGY EXTENSION PROGRAM provide tech. transfer, ext. service, product info; conduct and direct research into grass production, maintenance and substainability; demonstrate and test special technologies that relate to grass, soil and wildlife cons.	K. Pedersen L. Grant Saskatchewan Stockgrowers Association Regina District #14	ADF Two Years 974,800	195,760
ADF-D-0822 DIRECT SEEDING ALFALFA INTO CRESTED WHEATGRASS determine best method to control weeds before alfalfa is direct seeded into crested wheatgrass	G. Bowes C. Allen Hyde Grazing Co-op Lemberg District #13	ADF Four Years 132,435	26,000
ADF-D-0843 FROST SEEDING OF WINTER WHEAT FOR SPRING GRAZING test if it is possible to seed winter wheat in the fall to have it germinate in the spring for summer grazing	L. Gutek C. Fox C. Fox Archerwill District #42	ADF One Year 450	345

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SPECIAL CROPS			
* ADF-D-0212 GARLIC PRODUCTION IN SASKATCHEWAN demonstrate successful garlic production and estimate market and acceptance for Saskatchewan garlic	J. Donovan E. Vermette Saskatchewan Vegetable Growers Assoc. Yorkton District #12	ADF Three Years 9,430	480
* ADF-D-0505 EVALUATION OF HERBS AND SPICES AS ALTERNATIVE CROPS FOR THE SPEERS AREA try herbs and spice crops that can be economically grown under field conditions	H. Nickel R. Sjoberg R. Sjoberg Farms Speers District #34	ADF Two Years 7,218	6,245
* ADF-D-0582 SPICE EVALUATION PROJECT try a new spice crop - Anise seed; compare coriander on summerfallow; establish caraway by underseeding it on a coriander field; evaluate processing and marketing problems associated with new crop development	B. Rapp G. Schweitzer G. Schweitzer Farm Eston District #17	ADF One Year 3,955	3,164
ADF-D-0634 GROWING AND MARKETING SAVORY HERBS Continue growing perennial herbs seeded in 1989; increase acreage seeded. Market emphasis will be on both dried and fresh product in the higher population centres.	H. Admundson G. Andersen G. Andersen Canwood District #33	ADF Two Years 14,200	8,000
* ADF-D-0742 EVALUATION OF HERBS & SPICES identify herbs and spices that can be grown economically under field conditions	R. Springer B. Meinert ADD District #4 Board Shaunavon District #04	ADF One Year 981	874
FRUITS			
* ADF-D-0027 DEMONSTRATION ORCHARD evaluate the adaptation of various fruit tree varieties for production in the local area	L. Lee D. Craig D. Craig Farm Carrot River District #31	ADF Three Years 2,285	106
* ADF-D-0231 TIMBER BAY BLUEBERRY PROJECT develop techniques of blueberry production and marketing possibilities	G. Ivanochko L. Beatty Timber Bay Producers Association Timber Bay District #NS	ADF Three Years 18,169	1,600

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0318 MANAGEMENT OF NATIVE BLUEBERRY STAND demonstrate the possibilities of commercial production of blueberries through management of existing stands	G. Ivanochko G. Ivanochko Sask Agriculture and Food LaRonge District #44	ADF Three Years 19,225	2,671
* ADF-D-0458 SASKATOON BERRY U-PICK OPERATION investigate the potential for growing a good quality commercial Saskatoon berry crop outside Parkland zone and check potential for marketing; investigate three varieties for suitability	K. Pedersen C. & B. Topp C. & B. Topp Farm Regina District #14	ADF Two Years 13,471	2,112
ADF-D-0554 ORCHARD DEMONSTRATION PROJECT test for winter hardiness and productivity as well as demonstrate proper pruning and training techniques	C. Peters B. Hamilton B. Hamilton Farm Duval District #37	ADF Four Years 6,050	1,110
ADF-D-0563 ORCHARD DEMONSTRATION PROJECT test hardiness and productivity as well as demonstrate proper pruning and training techniques on orchard species	C. Peters A. & E. Krentz A. & E. Krentz Farm Duval District #37	ADF Four Years 2,900	681
* ADF-D-0585 ORCHARD VARIETY TESTING evaluate adaptation of 28 varieties to local conditions and demonstrate pruning and training techniques	C. Peters L. McConnachie L. McConnachie Fairlight District #05	ADF One Year 600	480
* ADF-D-0586 GOLDEN VIEW ORCHARD DEMONSTRATION dmonstrate orcharding techniques in District 25, the productivity of newer better adapted fruit varieties for orchards	C. Peters T. Potoreyko T. Potoreyko Porcupine Plain District #25	ADF One Year 374	244
ADF-D-0622 SASKATOON BERRY ORCHARD DEMONSTRATION evaluate and obtain production factors and marketing information on Saskatoon berry production in west central Saskatchewan	B. Rapp G. McIntyre G. & G. McIntyre D'Arcy District #17	ADF Four Years 7,618	2,915

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0642 BLUEBERRY DEMONSTRATION place a number of blueberry sites in the district to look at the potential for commercial production	D. Cubbon K. Schamber #36 ADD Board Goodsoil District #36	ADF Two Years 3,440	892
ADF-D-0650 RAT LAKE BLUEBERRY PROJECT demonstrate the feasibility of managing wild blueberry stands in the Hudson Bay area and thus develop this crop as a diversitication opportunity	D. Perrault K. Hamilton K. Hamilton Hudson Bay District #25	ADF Four Years 10,264	1,376
ADF-D-0662 DEMONSTRATION ORCHARD determine fruit variety suitability in the Riverhurst area	C. Peters G. and D. Ewen G. and D. Ewen Riverhurst District #16	ADF One Year 1,180	944
ADF-D-0677 TEST ORCHARD test and evaluate a variety of fruiting trees and shrubs for hardiness, adaptation and quality in the North Battleford area	C. Peters M. Richardson Battle River Nursery North Battleford District #34	ADF Four Years 1,500	900
* ADF-D-0693 ORCHARD DEMONSTRATION evaluate adaptation and hardiness of fruit trees and demonstrate proper pruning and training techniques	B. Springer M. & L. Metke Treasure Valley Farms Cadillac District #09	ADF One Year 1,200	1,200
* ADF-D-0694 PRAIRIE ORCHARD TEST SITE test newer cultivars so that a basis for orchard variety recommendations can be established for this area	L. Schafer C. Cocks C. Cocks Leader District #17	ADF One Year 1,849	1,479
* ADF-D-0700 ORCHARD DEMONSTRATION test hardiness of current available fruit varieties, demonstrate orcharding techniques and collect data on flowering and fruiting dates	R. Springer M. & B. Galey M. & B. Galey Cadillac District #04	ADF One Year 1,200	1,200
ADF-D-0702 MANAGEMENT OF LOWBUSH BLUEBERRY STANDS investigate the potential of commercial production lowbush blueberries through the management of existing stands in northern Saskatchewan	G. Ivanochko E. Fafard La Ronge Precambrian Ag Society La Ronge District #44	ADF Three Years 52,875	16,081

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0733	J. Sawatzky	ADF	6,000
CLONAL PLANT PROPAGATION DEMONSTRATION	J. Sawatzky	Three Years	
demonstrate the effectiveness of etiolated, juvenile stool bed and intermittent mist for the clonal propagation of woody plant species, e.g. saskatoon berry	Dept. of Horticulture Science University of Saskatchewan Saskatoon District #22	36,000	
ADF-D-0754	L. Lee	ADF	71
DEMONSTRATION ORCHARDS	O. Craig	Four Years	
establish demonstration orchards	District #31 ADD Board Carrot River District #31	3,925	
ADF-D-0770	E. Tanner	ADF	300
FRUIT TREE - ORCHARD PROGRAM	B. Kotylak	One Year	
try different fruit trees - apple, plum, crab, etc.	B. Kotylak Kendall District #06	400	
* ADF-D-0777	B. Rugg	ADF	950
MISTING BED DEMONSTRATION	R. Parenteau	One Year	
compare the growth and mortality rate between seedlings and suckers grown under a misting bed	Parenteau's Saskatoon Berry Farm Langham District #22	1,000	
ADF-D-0786	B. Rugg	ADF	1,950
EVALUATION OF SEEDLINGS VS SUCKERS - SASKATOON BERRY TRIAL	R. & C. Parenteau	Three Years	
determine if there is a difference between Saskatoon berry plants derived from sucker or seed in regard to establishment, winter survival and irrigation requirements	R. & C. Parenteau Langham District #22	8,750	
ADF-D-0842	D. Cubbon	ADF	217
OVER-WINTERING DAY NEUTRAL STRAWBERRY	O. Berube	One Year	
look at winter protection for day neutral strawberries	O & L Gardens Makwa District #36	470	
VEGETABLES			
* ADF-D-0371	G. Ivanochko	ADF	54
NORTHERN GARDENING PROJECT	M. Morin	One Year	
demonstrate improved gardening techniques such as fertilizers and use of plastic mulch	Village of Ile a La Crosse Ile a La Crosse District #NS	12,030	
* ADF-D-0577	M. Janssen	ADF	280
GARLIC DEMONSTRATION	G. Sejevick	One Year	
show commercial viability of producing garlic in northeast Saskatchewan	G. Sejevick Watson District #21	540	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0628 TESTING PROGRAM FOR ADAPTATION OF NEW VEGETABLE CULTIVARS TO SASKATCHEWAN GROWING CONDITIONS examine newly released cultivars of vegetable crops of commercial significance for suitability and adaptation to Saskatchewan growing conditions and commercial production practices	D. Waterer D. Waterer University of Saskatchewan Dept. of Horticulture Science Saskatoon District #22	ADF One Year 39,200	38,030
ADF-D-0660 DEMONSTRATION OF MULTIROW FLOATING COVERS FOR VEGETABLE CROPS demonstrate multiple row covers under grower site conditions; to determine whether the multiple row covers are sufficiently practical, efficient and cost-effective to justify their use	D. Waterer D. Waterer Dept. of Horticulture Science University of Saskatchewan Saskatoon District #22	ADF Two Years 8,400	4,200
ADF-D-0680 NORTH FEEDING THE NORTH develop commercial production of fruits and vegetables for local markets and the mining camps in northern Saskatchewan	G. Ivanochko B. Bellanger Northern Village of Ile a la Crosse Ile a la Crosse District #NS	ADF Three Years 34,160	11,581
ADF-D-0704 ASPARAGUS PRODUCTION IN SASKATCHEWAN demonstration results on the production of asparagus as a specialty crop for market garden farms	D. Waterer K. Bailey K. Bailey Saskatoon District #22	ADF Two Years 13,183	9,019
ADF-D-0828 TESTING PROGRAM FOR ADAPTATION OF NEW VEGETABLE CULTIVARS TO SASKATCHEWAN examine newly released cultivars of vegetable crops of commercial significance for their suitability and adaptation to local production conditions and practices	D. Waterer D. Waterer Deptartment of Horticulture Science University of Saskatchewan Saskatoon District #22	ADF Two Years 48,400	9,680
WHEATS			
* ADF-D-0381 EARLY MATURING SPRING WHEAT VARIETY TRIALS demonstrate the value of two new early maturing spring wheat varieties	W. Vanin J. Tanton ADD Board #18 Stenen District #18	ADF One Year 860	725

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0382 EARLY MATURING SPRING WHEAT VARIETY TRIALS evaluate and promote kenyon and roblin spring wheat varieties	W. Vanin R. Fedoruk ADD Board #18 Kamsack District #18	ADF One Year 860	725
* ADF-D-0383 EARLY MATURING SPRING WHEAT VARIETY TRIALS evaluate and promote kenyon and roblin spring wheat varieties	W. Vanin P. Holinaty ADD Board #18 Arran District #18	ADF One Year 860	725
* ADF-D-0477 DISTRICT #1 DURUM WHEAT MAXIMUM ECONOMIC YIELD (MEY) PROJECT test various durum wheat production practices within District #1, assess the economic viability of these and create awareness of MEY practices among durum wheat producers in order to further promote MEY projects/MEY crop clubs	B. Hansen R. Hagel R.M. of Benson #35 Benson District #01	ADF One Year 7,339	1,468
ADF-D-0647 DISTRICT #1 SPRING WHEAT MAXIMUM ECONOMIC YIELD (MEY) PROJECT determine effect of various production practices for the yields and economics of spring wheat production	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF Three Years 22,032	7,918
ADF-D-0649 DISTRICT #1 DURUM WHEAT MAXIMUM ECONOMIC YIELD (MEY) PROJECT determine the effect of various production practices on the yield and economics of durum wheat production	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF Three Years 22,031	7,918
CROPS - OTHER			
* ADF-D-0408 PRODUCTION OF FIBRE FLAX FOR PILOT PROCESSING evaluate the quality of retted flax straw for fibre processing	D. Belisle A. Ulrich Carcan Ltd. Saskatoon District #22	ADF One Year 6,000	1,251
* ADF-D-0455 CHAFF FOR LIVESTOCK FEED demonstrate use of chaff as a low cost livestock feed; monitor cow/calf performance when chaff is used as feed; visual presentations	K. LePoudre J. Knudson Barrier Valley Forage Assoc. Ltd. Archerwill District #26	ADF One Year 28,000	26,857

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0476 CORN PRODUCTION try corn production on a field scale to establish whether it is a viable and economically feasible alternative to supplying winter feed for a cow-calf to finish operation	B. Swanson L. Forseille L. Forseille Farm Duck Lake District #32	ADF One Year 4,985	4,985
* ADF-D-0487 GROWING SAVORY HERBS grow spices and herbs that can be used by local homemakers in preparation of seasoned food items	H. Amundson G. Anderson Gary Anderson Farm Canwood District #33	ADF One Year 1,503	832
* ADF-D-0506 MUSTARD - PEA DEMONSTRATION show if there is any benefit from growing mustard and peas together	N. Jansen B. Stomp B. Stomp Muenster District #21	ADF One Year 1,560	1,519
* ADF-D-0541 FEASIBILITY OF GROWING CORN ON THE REGINA PLAINS estimate economics of using hybrid corn varieties to increase organic residue in farmland	K. Pederson J. Tanner James Tanner Farm Regina District #14	ADF Two Years 7,954	2,700
* ADF-D-0603 CHAFF FOR LIVESTOCK FEED demonstrate the use of chaff as a low cost livestock feed in a cow/calf and backgrounding operation	B. Klemmer R. Guest R. Guest Pangman District #07	ADF One Year 7,195	4,493
* ADF-D-0710 DRYLAND QUINOA - NAICAM to determine suitable agronomic practices for growing quinoa in this area and to determine of this crop can be profitable	S. Adam B. Presber B. Presber Naicam District #27	ADF One Year 500	500
* ADF-D-0720 INTERCROPPING FLAX AND LAIRD LENTILS obtain maximum returns possible by intercropping two cash crops	N. Janssen J. Thompson J. Thompson LeRoy District #21	ADF One Year 995	797
CROP DISEASE CONTROL			
* ADF-D-0361 BLACKLEG RESISTANCE VARIETY TRIALS demonstrate resistance to blackleg in several new lines and varieties of canola	S. Adam E. Bendig Saskatchewan Canola Growers' Assoc. Melfort District #27	ADF Two Years 15,400	7,101

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0402 EVALUATION OF THE EFFECTS OF POTASH ON DISEASE AND YIELD OF DURUM WHEAT evaluate effects of application of potash and nitrogen fertilizer on summerfallow in terms of disease suppression and yield variations	B. Rapp J. Martin J. Martin Laporte District #17	ADF One Year 505	343
* ADF-D-0529 EVALUATION OF POTASH ON DISEASE AND YIELD IN WHEAT effects of application of potash and phosphorus fertilizer in regard to disease suppression and yield variations in wheat	B. Rapp R. Hammerlind Hammerlind Farms Ltd. Eatonia District #17	ADF One Year 600	382
* ADF-D-0669 DISEASE CONTROL IN CANOLA use of the petal testing method to determine the levels of sclerotinia during the flowering stages of canola; illustrate the degree of tolerance to Blackleg of different canola varieties	D. England J. Bessel Sask. Canola Growers Association Saskatoon District #22	ADF One Year 37,524	28,580
INSECT CONTROL			
ADF-D-0618 DAIRY OPERATION MANURE MANAGEMENT/LESSER HOUSEFLY CONTROL demonstrate the effectiveness of manure management conducted in 1988 on the Terry Dierker dairy farm, in the control and distribution of the Lesser Housefly	B. Henley L. Saul T. Dierker Saskatoon District #26	ADF One Year 995	596
WEED CONTROL			
* ADF-D-0315 CHEMICAL WEED CONTROL IN FORAGE SEED CROPS demonstrate the effectiveness of various chemicals in controlling weeds in forage seed crops	L. Lee L. Lee Ag Extension Board #31 Nipawin District #31	ADF Three Years 21,099	5,572
* ADF-D-0435 TRIFLURALIN FOR REDUCED TILLAGE AND RESIDUAL WEED CONTROL evaluate residual weed control and tillage practices with summer vs fall applied trifluralin	B. Rapp B. Guidinger B. Guidinger Eatonia District #17	ADF One Year 307	307

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0473 EFFECT OF WATER VOLUME, CHEMICAL RATES AND SPRAY DROPLET SIZE ON WEED CONTROL evaluate and demonstrate the effects of low water volumes, chemical rates and droplet size on chemical weed control with Roundup and Poast	B. Swanson T. Tomtene Birch Hills Crops Club Birch Hills District #32	ADF One Year 15,630	8,000
* ADF-D-0501 BIOLOGICAL CONTROL OF LEAFY SPURGE demonstrate the effectiveness of spurge flea beetles as biocontrol agents of leafy spurge, monitor previous release sites, conduct field days and distribute additional beetles	D. Billett D. Chambers Saskatchewan Association of Rural Municipal. Regina District #14	ADF One Year 17,780	2,126
ADF-D-0566 WILD OAT MAPPING develop an accurate method of mapping wild oat patches during the summerfallow year and to determine if they can be successfully used to reduce the costs of wild oat control in the following crop year	B. Rapp S. Pavlik Pavlik Farms Ltd. Eatonia District #17	ADF One Year 569	528
ADF-D-0572 CROP CLUB #437 HERBICIDE COMPARISON STUDY demonstrate the various effects of the available herbicides recommended for the area	H. Nickel R. Florence R. Florence Farm North Battleford District #34	ADF Three Years 11,400	1,828
* ADF-D-0626 CANADA THISTLE CONTROL demonstrate control of Canada thistle in fall when the thistle is in the rosette stage	K. Beaulieu G. Swanson G. Swanson Farm Semans District #37	ADF One Year 590	472
ADF-D-0630 WINTER ANNUAL SPRAYING - 2,4-D demonstrate the infrequently utilized soil conservation practise of fall 2,4-D application for winter annuals	L. Reeve K. Kluz District #20 ADD Board Wynyard District #20	ADF One Year 450	30
ADF-D-0633 CANADA THISTLE CONTROL IN NORTHEAST SASKATCHEWAN evaluate effectiveness of Canada Thistle control; evaluate chemical and tillage practices; establish monitoring techniques	S. Adam Melfort ADD Board Melfort ADD Board Melfort District #27	ADF Four Years 158,050	18,332

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0645 KOCHIA WEED CONTROL IN WHEAT assess effectiveness of various herbicides in controlling the weed kochia; determine effect of weed growth stage on herbicide effectiveness	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF One Year 2,172	2,172
* ADF-D-0646 GREEN FOXTAIL CONTROL IN SPRING WHEAT assess the effectiveness of various herbicides and harrowing in controlling the weed green foxtail; determine cost effectiveness	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF One Year 804	774
ADF-D-0653 BIOLOGICAL CONTROL OF PERSISTENT PERENNIAL WEEDS distribute through demonstrations the effectiveness of biocontrol of persistent perennial weeds such as leafy spurge, toadflax and field bindweed	K. Pedersen D. Chambers Sask. Assoc. of Rural Municipalities Regina District #14	ADF Three Years 118,640	26,368
ADF-D-0657 QUACKGRASS CONTROL WITH ROUNDUP AND TILLAGE evaluate quackgrass control using two rates of glyphosate (Roundup) with and without tillage	B. Swanson L. Christopherson Birch Hills Crops Club Weldon District #32	ADF Three Years 55,940	19,680
* ADF-D-0667 WEED CONTROL IN CANOLA compare different alternatives in controlling weeds in canola, the economics, and impact on crop quality	D. England J. Bessel Sask. Canola Growers Association Saskatoon District #22	ADF One Year 29,385	23,508
* ADF-D-0741 EVALUATION OF NATURAL HERBICIDES IN YOUNG MUSTARD PLANTS FOR WEED CONTROL assess the effectiveness of using a killed stand of seedling mustard as a cover crop for weed control	R. Springer B. Meinert ADD District #4 Board Shaunavon District #04	ADF One Year 353	122
ADF-D-0830 WEED SEEDLING IDENTIFICATION improve the weed identification skills of area farmers and crop development stages relative to herbicide application	D. Simmons S. Karkut District #39 ADD Board Balcarres District #39	ADF One Year 9,550	7,960

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
POWER AND MACHINERY ENGINEERING			
* ADF-D-0550 SPOKED WHEEL FERTILIZER NESTING evaluate spoked wheel applicator on Marquis terrain, compare crop and forage between nesting and normal operations; do a cost-benefit analysis of fertilizer nesting	J. Graham T. O'Connell Marquis Soil Conservation Coop Marquis District #08	ADF One Year 4,090	1,329
STRUCTURES AND ENVIRONMENT			
ADF-D-0825 A BLUEPRINT FOR THE DESIGN AND OPERATION OF A MODERN SWINE FACILITY WITH STRAW BEDDING AND COMPOSTING OF SOLID WASTES design, construct and operate a 50 sow farrow to finish swine facility aimed at addressing animal welfare, manure odor and environmental (land and water) pollution	N. Janssen M. Jorgenson B. & M. Jorgenson Humboldt District #21	ADF Four Years 37,700	9,840
SOIL AND WATER ENGINEERING			
* ADF-D-0450 SEEDBED COMPACTION REQUIREMENTS FOR AIRSEEDERS demonstrate a few commercial packing attachments for airseeders in stubble and fallow; evaluate the establishment and yield of spring seeded cereals	B. Dyck H. Wall North Hill Conservation Area, Inc. Vanguard District #09	ADF Two Years 18,983	10,259
* ADF-D-0497 PITTING FOR WATER AND SOIL RETENTION treat black soil slopes with pitter to intercept rain water runoff and retain to allow infiltration	L. Gutek J. Young Kelvington Agricultural Society Kelvington District #42	ADF One Year 11,395	988
FOOD MARKET IDENTIFICATION AND DEVELOPMENT			
ADF-D-0792 RASPBERRY CULTIVAR EVALUATION TRIAL select, plant and evaluate promising named raspberry cultivars and numbered selections from prairie provinces	K. Giles K. Giles Department of Horticulture Science University of Saskatchewan Saskatoon District #22	ADF Four Years 26,000	10,400

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
COMMUNICATIONS			
* ADF-D-0420 PUBLICIZING THE ADF IN NORTHERN REGIONS develop a communications/extension program to complement provincial ADF communications to make rural and urban people more aware of the ADF projects across our region	A. Edge A. Edge Ashley Edge Consulting Prince Albert District #32	ADF Two Years 16,800	1,125
* ADF-D-0423 WC & EC PROJECT VIDEOS gather suitable vhs tape material on west central and east central regions ADF demonstration to promote ADF activities in its on-farm demonstration	R. Kehrig R. Kehrig R. Kehrig Consulting Ltd. Saskatoon District #22	ADF Two Years 20,852	3,203
EXTENSION			
* ADF-D-0394 TECHNOLOGY TRANSFER coordinate technology transfers for the ADF demonstrations	G. Riemer G. Riemer Greg Riemer Consulting Craven District #22	ADF Two Years 128,000	22,460
* ADF-D-0396 TECHNOLOGY TRANSFER provide technology transfers for the ADF demonstrations	B. Baumann B. Baumann Bruce Baumann Consulting Swift Current District #09	ADF Two Years 103,620	20,402
* ADF-D-0397 TECHNOLOGY TRANSFER provide technology transfers for the ADF demonstrations	R. Kehrig R. Kehrig Ron Kehrig Consulting Saskatoon District #22	ADF Two Years 122,665	19,635
* ADF-D-0398 TECHNOLOGY TRANSFER provide technology transfer for the ADF demonstrations	A. Edge A. Edge Ashley Edge Consulting Prince Albert District #32	ADF Two Years 111,430	38,250
* ADF-D-0452 EAST CENTRAL CROP CLUB CONFERENCE 1988 inform existing crop clubs of the funding and technical assistance available from government and agribusiness	J. Donovan R. Kehrig Ron Kehrig Consulting Saskatoon District #12	ADF One Year 4,100	922

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0713 FORAGE PRODUCTION ADF TOUR conduct a one-day tour of forage production and processing activities for 47 forage producers in early June 1990	W. Vanin W. Kryklywicz Parkland Forage Association Kamsack District #18	ADF One Year 1,000	1,000
* ADF-D-0768 ADF TOUR, PRUNING - WORKSHOP OF AN ADF FRUIT TREE DEMONSTRATION demonstrate practical pruning on fruit trees and trees in general	K. Beaulieu M. Kelln ADD District #37 Board Strasbourg District #37	ADF One Year 600	600
* ADF-D-0783 CANADIAN HEREFORD CENTRE AND BEEF NUTRITION ADF TOUR conduct a one-day tour of the Canadian Hereford Centre and hold a session on trace mineral requirements of beef cows and bulls	H. Bjorge S. Palmer District #35 ADD Board Marsden District #35	ADF One Year 600	600
* ADF-D-0791 ADF FARM TOUR - DISTRICT #43 bus tour of ADF on-farm projects	B. Doig B. Hoehn District #43 ADD Board Drake District #43	ADF One Year 576	576
* ADF-D-0800 DISTRICT ONE AGRICULTURAL TOUR tour ADF and SOS projects in District #1	B. Hansen B. Harris District #1 ADD Board Estevan District #01	ADF One Year 600	600
* ADF-D-0801 DISTRICT #4 ADF & SOS TOUR tour four ADF sites and three SOS sites	R. Springer L. Meinert District #4 ADD Board Shaunavon District #04	ADF One Year 600	600
* ADF-D-0809 SOUTH WEST AGRICULTURE DEVELOPMENT FUND REGIONAL TOUR tour ADF and SOS sites in the district	D. Tumbach L. Potter South West Regional Council Gull Lake District #10	ADF One Year 1,200	1,200
* ADF-D-0811 DISTRICT #39 FARMER TOUR hold a tour of demonstration and research sites in the district	D. Simmons S. Karkut District #39 ADD Board Balcarres District #39	ADF One Year 600	400

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0812 BIRCH HILLS CROPS CLUB view ADF and other field demonstration plots	B. Swanson T. Tomtene Birch Hills Crops Club Birch Hills District #32	ADF One Year 250	125
* ADF-D-0814 DISTRICT 25 ADF TOUR conduct a one-day bus tour of ADF sites in District #25	D. Perrault W. Derenowski District #25 ADD Board Hudson Bay District #25	ADF One Year 600	516
* ADF-D-0816 ADD BOARDS #12 AND 13 AGRICULTURAL TOUR demonstrate ADF and Save our Soils sites within ADD Districts 12 and 13	J. Donovan R. Arndt District #12 ADD B oard Springside District #12	ADF One Year 500	500
* ADF-D-0818 DISTRICT 29 ADD BOARD SUMMER TOUR tour and observe results of Save Our Soils, ADF and Ducks Unlimited projects	L. Bader D. Sutherland District #29 ADD Board Hepburn District #29	ADF One Year 600	600
* ADF-D-0819 DISTRICT 27 ADF TOUR tour farmers to various demonstration sites in the district	S. Adam S. Adam District #27 ADD Board Melfort District #27	ADF One Year 450	210
* ADF-D-0820 N.E. ADF FORAGE TOUR & FIELD DAY tour ADF forage production sites and view a sod-seeding demonstration	L. Lee J. Bertrand N.E. Grassland & Forage Co-op White Fox District #31	ADF One Year 250	250
ADF-D-0821 MARKETING CLUB CROPS TOUR investigate ADF projects and other local projects and alternative and/or specialty crops	L. Reeve B. Helgason Foam Lake Marketing Club Foam Lake District #20	ADF One Year 200	175
* ADF-D-0847 DOCUMENTATION OF THE "DEVELOP AND DIVERSIFY FOR THE '90'S" CONFERENCE IN YORKTON ON DECEMBER 3 & 4, 1990 conduct a conference on alternatives to conventional agriculture including game farming, fur ranching, vacation farms, exotic crops, organic production, food processing, patents, financial planning and specialized projects	D. Simmons K. Robb District #39 ADD Board Balcarres District #39	ADF One Year 950	950

DEMONSTRATION

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0848 CATTLE FEET & LEG PROBLEMS through a seminar, make producers aware of how to recognize and manage feet problems in commercial and breeding animals	J. Donovan S. Morin Yorkton Agric. & Industrial Exhib. Assoc. Yorkton District #12	ADF One Year 600	600
* ADF-D-0878 ORGANIC MARKETING WORKSHOP conduct an information meeting for producers on strategies for developing markets for organically grown products, based on the ADF project ADF-V-0320 by E. Weymes	W. Vanin V. Vewchar Parkland Organic Producers Co-op Hyas District #18	ADF One Year 325	320
* ADF-D-0881 ORGANIC AGRICULTURE SEMINAR present the results and information on organic farming from ADF funded projects and those in the industry, etc.	J. Donovan G. Blakey Spy Hill ADD Committee Tantallon District #13	ADF One Year 600	600
ADF-D-0885 ECONOMIC EVALUATION OF DAIRY MILK PRODUCTION WITH THE ADDITION OF WHOLE OILSEED SUNFLOWERS assess the economic viability of feeding whole seed sunflowers to dairy cows in order to increase the energy of their ration and thus their production	B. Hansen B. Harris District #1 ADD Board Estevan District #01	ADF One Year 997	735
* ADF-D-0889 DISTRICT ONE ADF CATTLE AND FEET PROBLEM SEMINAR carry out a seminar to inform local cattlemen of ADF research carried out regarding cattle and feet problems	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF One Year 600	404
HUMAN RESOURCES - OTHERS			
* ERD-D-0257 5.1-11 AGRICULTURE INFORMATION CENTRE design, develop and examine the potential of an agriculture interactive computer information system	D. Mintenko D. Mintenko Cartel Electronics Moose Jaw	ERDA Two Years 372,430	48,000

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
BEEF			
* ERD-D-0067 2.4-04 PRODUCTIVITY AND REPRODUCTIVE PERFORMANCE OF HERDS IN NORTHEAST SASKATCHEWAN show a herd health program in R.M. #394	L. Purves L. Purves Rural Municipality of Hudson Bay #394 Hudson Bay	ERDA Three Years 63,500	7,511
* ERD-D-0096 2.4-14 NORTH SASKATCHEWAN BEEF DEMONSTRATION PROJECT increase productivity, improve profitability with greater awareness and satisfaction in proper management of beef	B. Allen B. Allen Prince Albert Beef Producers Assoc. Prince Albert	ERDA Two Years 67,000	1,947
* ADF-D-0204 NORTHEAST LIVESTOCK FEED SERVICES provide 50 livestock producers of swine, beef and dairy with a feedstuff analysis, rations and formulae for their particular livestock and to assist in mix-mill calibration to reduce ration mixing error	E. Tanner J. Armstrong J. Armstrong Tisdale District #26	ADF Two Years 34,650	450
ADF-D-0322 CUSTOM FEED SAMPLING AND NUTRITION CONSULTING PILOT PROJECT increase use of feed analysis services and application of balanced rations by reducing input costs and increasing profitability	B. Hansen B. Hansen Ag Extension Board #1 Estevan District #01	ADF Two Years 22,963	#69
ADF-D-0323 CUSTOM FEED SAMPLING AND NUTRITION CONSULTING PILOT PROJECT demonstrate the need for custom feed sampling through increased profitability and better balanced rations for increased livestock production	L. Gutek L. Gutek East Central Region Yorkton District #42	ADF Two Years 22,963	186
* ADF-D-0342 BEEF CATTLE HANDLING demonstrate the benefits derived from properly designed and constructed handling facilities and provide assistance on specific layouts and constructive techniques	B. Campbell B. Campbell Parkland Agricultural Society Yorkton District #12	ADF One Year 9,655	3,699

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ERD-D-0378 2.6-07	D. Pulfer	ERDA	14,000
SASKATCHEWAN CERTIFIED PRE-CONDITIONED	D. Pulfer	Two Years	
FEEDER NEW SALES PROJECT	Saskatchewan Veterinary Medical Assoc.	44,000	
regularize procedures for promoting the sale of pre-conditioned calves in Saskatchewan to increase the number of calves processed and sold	Saskatoon		
ADF-D-0443	B. Rugg	ADF	6,546
SASKATCHEWAN FEEDLOT PROJECT	K. MacDonald	Two Years	
demonstrate custom backgrounding of calves and traditional versus accelerated feeding and to generate management skills	Saskatchewan Cattle Feeders Assoc.	174,952	
	Saskatoon		
	District #22		
ADF-D-0449	G. Knobel	ADF	10,033
KOCHIA AS A WINTER FEED	J. Hanson	Two Years	
demonstrate use of a 50% kochia ration for pregnant cattle at five sites in southern Saskatchewan; evaluate weight gain, condition and reproductive efficiency	Western Canada Kochia Growers Assoc.	40,125	
	Moose Jaw		
	District #08		
ADF-D-0558	N. McLeod	ADF	25,010
CHAFF IN FEEDER CATTLE RATIONS	N. McLeod	One Year	
use of chaff as a low cost component of calf growing rations by doing feeding trials at a selected feeder cattle operation	Rosetown Beef Group	31,262	
	Rosetown		
	District #40		
ADF-D-0631	J. Armstrong	ADF	79,380
REPLACEMENT HEIFER MANAGEMENT AND	G. Rice	Three Years	
MARKET DEVELOPMENT	Northeast Bull Test Coop	170,100	
demonstrate replacement heifer management and selection techniques and to develop a market	Tisdale		
	District #26		
ADF-D-0744	J. Pollock	ADF	14,552
SOUTH EAST FEEDLOT PROJECT - 1990/91	K. Ecklund	One Year	
challenge all sectors of the beef industry to work together in a common purpose to demonstrate, observe and discuss how different cattle perform and grade when fed and managed in a common way	S. E. Feedlot Project Steering Committee	24,000	
	Moosomin		
	District #05		
* ADF-D-0790	D. Cubbon	ADF	480
YEARLING BEEF PRODUCTION ON MAKWA	K. Schamber	One Year	
COMMUNITY PASTURE	District #36 ADD Board	600	
establish rate of gain information for yearlings in pasture	Goodsoil		
	District #36		

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0804 GLENBUSH STEER OF THE YEAR COMPETITION provide a uniform test pen where cattlemen can compare and evaluate the growth performance, carcass value and potential for profit by feeding out their calves as well as learn more about custom feedlotting	V. Matschke-Muller B. Soderberg Glenbush Steer Competition Advisory Committee Glenbush District #38	ADF Two Years 13,500	883
SHEEP AND GOATS			
ADF-D-0482 INCREASED WOOL PRODUCTION WITH THE AUSTRALIAN MERINO SHEEP THROUGH LAPROSCOPIC ARTIFICIAL INSEMINATION demonstrate yield, grade and fleece weight of 1/4, 1/2 and 3/4 blood Merino with Corriedale ewes	P. Gerwing L. & B. Flaig L. & B. Flaig Farm Tompkins District #09	ADF Six Years 21,907	7,756
ADF-D-0483 INCREASED WOOL PRODUCTION WITH THE AUSTRALIAN MERINO SHEEP THROUGH LAPROSCOPIC ARTIFICIAL INSEMINATION demonstrate yield, grade and fleece weight of 1/4, 1/2, 3/4 blood Merino with Corriedale ewes	P. Gerwing D. Morvik D. Morvik Farm Eastend District #10	ADF Five Years 19,244	7,358
ADF-D-0604 GRAZING MANAGEMENT FOR RELEASE OF SEEDING CONIFERS to demonstrate biological weed control in replanted clearfell forest; provide a vehicle for NE sheep producers to participate in a co-op grazing program	J. Armstrong L. Penner NE Sheep Grazing Coop Prince Albert District #32	ADF Three Years 64,364	29,788
ADF-D-0803 LAMB PRODUCTION OUT OF NORMAL SEASON utilize new and existing products to increase out-of-season lambing to enhance access to premium markets	B. Hurd N. MacLeod Riverside Sheep Outlook District #16	ADF One Year 9,990	7,992
DAIRY			
* ADF-D-0429 DAIRY OPERATION FLY CONTROL demonstrate the effectiveness of the regular use of dichlorvos and permethrin for in-barn control of flies	M. Ayars L. Saul L. Saul Saskatoon District #26	ADF One Year 595	595

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
FUR ANIMALS			
ADF-D-0679 LYNX PRODUCTION IN SASKATCHEWAN develop management guidelines for the production of lynx and to prepare a production manual; establish a research development program for lynx production	L. Gutek A. Tokarchuk A. Tokarchuk Lintlaw District #42	ADF Two Years 47,400	9,920
HORSES			
ADF-D-0827 HORSE FEEDING PROJECT determine the most cost-effective method of feeding and finishing horses	B. Fritz K. Sinclair K. Sinclair Fort Qu'Appelle District #39	ADF One Year 9,950	4,510
POULTRY			
* ADF-D-0456 EGG SHELL QUALITY AND HATCHABILITY IN BROILER BREEDER FLOCKS determine how much egg shell quality affects hatchability; demonstrate practical method of measuring hatching egg shell quality	J. Holm C. Bennett Dept. of Animal and Poultry Science University of Saskatchewan Saskatoon District #22	ADF One Year 2,010	458
SWINE			
ADF-D-0794 FEED PEAS FOR SWINE demonstrate the value of feed peas in swine rations and to enhance information required for its production and use as an alternate protein crop	V. Racz B. Gaudet Sask. Pork Producers Marketing Board Saskatoon District #22	ADF One Year 48,750	19,500
ADF-D-0806 SWINE GROWTH CURVES WITH THREE LEVELS OF LYSINE express the genetic potential for lean growth inherent in the modern Saskatchewan hybrid pig and test the farm-scale economic returns	K. Pedersen I. Cruson Dutch Farms Regina District #14	ADF One Year 20,760	8,304
LIVESTOCK - OTHERS			
* ADF-D-0504 CAGE CULTURE OF SALMONIDS cage culture production of atlantic salmon, arctic charr and brook trout under northern Saskatchewan conditions	G. Ivanochko H. Cook Besnard Fish Farms La Ronge District #44	ADF One Year 17,500	10,037

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0547	G. McLean	ADF	7,840
OSTRICH REARING IN SASKATCHEWAN	D. and J. Wallace	One Year	
collect data on feeding, handling, breeding and economics of ostrich production and develop a production manual	D. and J. Wallace Farm Oxbow District #41	9,725	
FARM MANAGEMENT			
ADF-D-0336	E. Johnson	ADF	22,079
PRODUCTION FOR PROFIT	D. Jensen	Four Years	
demonstrate that economic yields can be obtained through proper fertilizer and herbicide use	Northwest Regional Council North Battleford District #34	81,550	
ECONOMIC CROP PRODUCTION EVALUATION			
* ADF-D-0194	B. Rapp	ADF	1,818
ECONOMICS OF CONTINUOUS CROPPING	H. Sutherland	Three Years	
compare net returns of continuous cropping with that of a 50/50 crop rotation	Sutherland Farm Eston District #17	10,650	
* ADF-D-0268	B. Rapp	ADF	1,673
YIELD ANALYSIS OF R.M. #259	G. Switzer	Three Years	
obtain reliable yield measurements from crop club projects to evaluate each project	R.M. #259 Crop Club Eston District #17	5,040	
* ADF-D-0341	L. Gutek	ADF	11,547
MAXIMUM ECONOMIC YIELD CROP MANAGEMENT	L. Gutek	Two Years	
establish on-farm demonstrations complemented by detailed replicated trials on fertilizer use efficiency and crop rotations, including peacle, as part of a maximum economic yield program for east central and northeast Sask.	Kelvington Agricultural Society Kelvington District #42	118,014	
* ADF-D-0425	B. Rapp	ADF	1,062
YIELD ANALYSIS OF CHESTERFIELD CROP CLUB (RM 261) PROJECTS	B. Hammerlinbdl	Two Years	
obtain reliable yield measurements from crop club projects to provide additional information for evaluation of each project	Chesterfield Crop Club Mantario District #17	4,260	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0489 MAXIMUM ECONOMICAL YIELD CLUB AND ON-FARM CROP PRODUCTION TRIALS bring research to the farm level, explore and identify specific practices that contribute to the most economical yield, try products on the farm before they are widely marketed and diversify crop base	S. Adam D. Tarrant Cargill Ltd. Melfort District #27	ADF One Year 4,705	123
* ADF-D-0528 FOAM LAKE ECONOMIC YIELD CLUB feasibility of deep ripping for crops and saline soils; fortress rates; trial grow fiesta pinto beans and peas and canola	J. Cruickshank J. Cruickshank Foam Lake Economic Yield Club Foam Lake District #20	ADF One Year 2,175	1,770
* ADF-D-0567 ECONOMIC CONSERVATION FALLOW apply "flex-cropping" concept to summerfallow and assess and determine the most economical method of weed control for that particular field at a particular point in time	B. Rapp S. Pavlik Pavlik Farms Ltd. Eatonia District #17	ADF One Year 589	539
* ADF-D-0596 SOUTHEAST WEIGH WAGON PROJECT continue to lease a weigh wagon for ADF projects for the next three years	B. Hansen B. Harris District #1 ADD Board North Portal District #01	ADF Three Years 2,675	143
* ADF-D-0644 DISTRICT #1 CROP DIVERSIFICATION TRIAL demonstrate alternative crops potential for growth and compare profitability to wheat, oats and barley in District #1	B. Hanson B. Harris District #1 ADD Board Estevan District #01	ADF One Year 13,280	13,280
ADF-D-0674 MAXIMUM ECONOMIC YIELD CROP MANAGEMENT FOR EASTERN SASKATCHEWAN establish on-farm demonstrations complemented by detailed replicated trials on fertiliser use efficiency and crop rotations, including peaola, as part of a maximum economic yield program for east central and northeast Saskatchewan	L. Gutek J. Young Kelvington Agricultural Society Kelvington District #42	ADF Three Years 141,978	46,157
ADF-D-0678 ECONOMICS OF CONTINUOUS CROPPING compare continuous cropping to a 50/50 rotation while evaluating direct seeding into standing stubble	B. Rapp D. Sutherland R.M. #259 Crop Club Eston District #17	ADF Four Years 8,728	1,585

DEMONSTRATION

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0684 YIELD ANALYSIS OF R.M. #259 CROP CLUB PROJECTS obtain reliable yield measurements from crop club projects to be used for project evaluation	B. Rapp D. Sutherland R.M. #259 Crop Club Eston District #17	ADF Three Years 8,400	3,279
ADF-D-0685 YIELD ANALYSIS OF CHESTERFIELD CROP CLUB PROJECTS obtain reliable yield measurements from crop club projects to be used for project evaluation	B. Rapp B. Hammerlindl Chesterfield Crop Club Eatonia District #17	ADF Three Years 8,400	588
* ADF-D-0701 MAXIMUM ECONOMIC YIELD TRIALS field scale demonstration of new crops, reduced tillage practises and comparisions of application methods for fertilizer	S. Adam D. Tarrant Melfort Canola Growers Melfort District #27	ADF One Year 1,496	1,008
NON-FOOD PROCESSING			
* ERD-D-0091 2.2-14 CHAFF AMMONIATION OF AWNED CROPS investigate chaff ammoniation for feed value and response to ammoniation	J. Kernan J. Kernan Saskatchewan Research Council Saskatoon	ERDA Two Years 17,500	3,365
* ERD-D-0356 2.2-22 THE AMMONIATION OF AWNED CHAFF confirm the improvement in animal intake and performance achieved by ammoniating Katepwa and durum chaff under a plastic cover	J. Kernan J. Kernan Saskatchewan Research Council Saskatoon	ERDA One Year 10,000	2,500
* ADF-D-0525 ROUND BALE SILAGE DEMONSTRATION make round bale silage using plastic bags that hold 21 round bales	W. Vanin W. Kryklywicz Parkland Forage Cooperative Kamsack District #18	ADF One Year 6,250	2,156
ADF-D-0767 HAY PRESERVATIVES USING NON-CORROSIVE PROPIONIC ACID determine the effectiveness of propionic acid in preserving hay and allowing earlier baling and evaluate the effects on hay quality and control of spoilage in hay stacks kept over winter	P. Gerwing J. Marsch J. Marsch Swift Current District #09	ADF One Year 980	784

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOIL CONSERVATION, EROSION CONTROL			
SOA-D-0101 DISTRICT #1 SAVE OUR SOILS PROJECT develop a long-term soil conservation plan; create detailed application proposal	B. Hansen B. Harris District #1 ADD Board Estevan District #01	Four Years 185,775	65,435
SOA-D-0102 DISTRICT #2 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the Ag. Extension District which will tie in with the regional conservation plan	G. Noble E. Anderson District #2 ADD Board Fife Lake District #02	Four Years 189,025	63,485
SOA-D-0103 DISTRICT #3 SAVE OUR SOILS PROGRAM draw up a soil conservation plan which will tie in with the regional conservation plan	W. Kehler C. Loewen District #3 ADD Board Gravelbourg District #03	Four Years 241,275	78,335
SOA-D-0104 DISTRICT #4 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the district which will tie in with the regional conservation plan	R. Springer B. Meinert District #4 ADD Board Shaunavon District #04	Four Years 208,025	72,285
SOA-D-0105 DISTRICT #5 SAVE OUR SOILS PROGRAM to initiate a soil conservation program in the district	J. Pollock R. Corcoran District #5 ADD Board Moosomin District #05	Four Years 100,000	38,400
SOA-D-0106 DISTRICT #6 SAVE OUR SOILS PROGRAM develop a long-term soil conservation plan for the district; create a detailed application proposal for the Save Our Soils program	E. Tanner L. Whittingham District #6 ADD Board Corning District #06	Four Years 186,775	66,435
SOA-D-0107 DISTRICT #7 SAVE OUR SOILS PROGRAM develop a soil conservation plan and a detailed application proposal for the district; create interest in shelterbelt plantings in the district	E. Moats J. Marcia District #7 ADD Board Weyburn District #07	Four Years 283,475	90,615
SOA-D-0108 DISTRICT #8 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the district which will tie in with the regional conservation plan	J. Graham G. Will District #8 ADD Board Moose Jaw District #08	Four Years 288,625	97,225

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOA-D-0109 DISTRICT #9 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the Ag. Extension district which will tie in with the regional conservation plan	P. Gerwing J. Kazeil District #9 ADD Board Herbert District #09	Four Years 289,025	93,304
SOA-D-0110 DISTRICT #10 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the Ag. Extension district which will tie in with the regional conservation plan	D. Tumbach B. Oster District #10 ADD Board Piapot District #10	Four Years 148,750	51,150
SOA-D-0111 DISTRICT #11 SAVE OUR SOILS PROGRAM draw up a soil conservation plan for the Ag. Extension district which will tie in with the regional conservation plan	L. Schafer J. Thorburn District #11 ADD Board Abbey District #11	Four Years 234,275	76,235
SOA-D-0112 DISTRICT #12 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	J. Donovan G. Yanke District #12 ADD Board Springside District #12	Four Years 106,500	40,500
SOA-D-0113 DISTRICT #13 SAVE OUR SOILS PROGRAM initiate a soil conservaiton program in the district	M. Angus-Yanke K. Schappert District #13 ADD Board Churchbridge District #13	Four Years 108,775	41,235
SOA-D-0114 DISTRICT #14 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	K. Pedersen G. Nicholas District #14 ADD Board Pense District #14	Four Years 138,975	47,315
SOA-D-0115 DISTRICT #15 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	M. Ruszkowski D. Ehman District #15 ADD Board Davidson District #15	Four Years 163,525	58,585
SOA-D-0116 DISTRICT #16 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	B. Hurd G. Stranden District #16 ADD Board Outlook District #16	Four Years 189,000	62,800

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOA-D-0117	B. Rapp		70,865
DISTRICT #17 SAVE OUR SOILS PROGRAM	J. Guidinger	Four Years	
initiate a soil conservation program in the district	District #17 ADD Board Kindersley District #17	205,725	
SOA-D-0118	W. Vanin		38,419
DISTRICT #18 SAVE OUR SOILS PROGRAM	J. Jacquemart	Four Years	
initiate a soil conservation program in the district	District #18 ADD Board Pelly District #18	100,975	
SOA-D-0119	B. Sim		37,350
DISTRICT #19 SAVE OUR SOILS PROGRAM	E. Robson	Four Years	
initiate a soil conservation program in the district	District #19 ADD Board Buchanan District #19	96,750	
SOA-D-0120	L. Reeve		37,665
DISTRICT #20 SAVE OUR SOILS PROGRAM	K. Kluz	Four Years	
initiate a soil conservation program in the district	District #20 ADD Board Wishart District #20	97,725	
SOA-D-0121	N. Janssen		36,615
DISTRICT #21 SAVE OUR SOILS PROGRAM	T. Mathieson	Four Years	
initiate a soil conservation program in the district	District #21 ADD Board Watson District #21	94,475	
SOA-D-0122	B. Rugg		51,000
DISTRICT #22 SAVE OUR SOILS PROGRAM	P. Steckler	Four Years	
create awareness of the Save our Soils program; encourage farmers to apply for on-farm demonstration and shelterbelt planting; complete a detailed proposal for 1990-91	District #22 ADD Board Colonsay District #22	139,000	
SOA-D-0123	G. Blarclay		53,835
DISTRICT #23 SAVE OUR SOILS PROGRAM	A. Bronstrom	Four Years	
initiate a soil conservation program in the district	District #23 ADD Board Biggar District #23	147,775	
SOA-D-0124	B. Green		55,785
DISTRICT #24 SAVE OUR SOILS PROGRAM	A. Krahn	Four Years	
initiate a soil conservation program in the district	District #24 ADD Board Kerrobert District #24	157,525	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOA-D-0125 DISTRICT #25 SAVE OUR SOILD PROGRAM initiate a soil conservation program in the district	D. Perrault E. Poniatowski District #25 ADD Board Porcupine Plain District #25	Four Years 78,225	28,365
SOA-D-0126 DISTRICT #26 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	M. Ayars R. Jackson District #26 ADD Board Arborfield District #26	Four Years 95,775	37,035
SOA-D-0127 DISTRICT #27 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	S. Adam M. Malmgren District #27 ADD Board Melfort District #27	Four Years 104,225	39,607
SOA-D-0128 DISTRICT #28 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	T. Boyle B. Martin District #28 ADD Board St. Benedict District #28	Four Years 96,750	37,350
SOA-D-0129 DISTRICT #29 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	L. Bader D. Andres District #29 ADD Board Hepburn District #29	Four Years 95,775	34,035
SOA-D-0130 DISTRICT #30 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	L. Klein N. McKenzie District #30 ADD Board Unity District #30	Four Years 109,750	38,550
SOA-D-0131 DISTRICT #31 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	L. Lee W. Craig District #31 ADD Board Carrot River District #30	Four Years 95,775	37,035
SOA-D-0132 DISTRICT #32 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	B. Swanson S. Njaa District #32 ADD Board Birch Hills District #32	Four Years 103,250	36,450
SOA-D-0133 DISTRICT #33 SAVE OUR SOILS PROGRAM initiate a soil conservation program in the district	H. Amundson D. Moe District #33 ADD Board Parkside District #33	Four Years 105,525	37,185

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOA-D-0134	H. Nickel		39,450
DISTRICT #34 SAVE OUR SOILS PROGRAM	L. Kemp	Four Years	
initiate a soil conservaiton program in the district	District #34 ADD Board North Battleford District #34	103,250	
SOA-D-0135	H. Bjorge		37,403
DISTRICT #35 SAVE OUR SOILS PROGRAM	M. McCrea	Four Years	
initiate a soil conservation program in the district	District #35 ADD Board Lloydminster District #35	104,250	
SOA-D-0136	D. Cubbon		29,835
DISTRICT #36 SAVE OUR SOILS PROGRAM	K. Schamber	Four Years	
initiate a soil conservation program in the district	District #36 ADD Board Goodsoil District #36	82,775	
SOA-D-0137	K. Beaulieu		56,715
DISTRICT #37 SAVE OUR SOILS PROGRAM	M. Kelln	Four Years	
initiate a soil conservation program in the district	District #37 ADD Board Strasbourg District #37	165,975	
SOA-D-0138	V. Matschke-Muller		33,300
DISTRICT #38 SAVE OUR SOILS PROGRAM	E. McKee	Four Years	
initiate a soil conservation plan for the district	District #38 ADD Board Spruce Lake District #38	93,500	
SOA-D-0139	D. Simmons		35,400
DISTRICT #39 SAVE OUR SOILS PROGRAM	K. Robb	Four Years	
initiate a soil conservation program in the district	District #39 ADD Board Balcarres District #39	100,000	
SOA-D-0140	J. Ippolito		63,492
DISTRICT 340 SAVE OUR SOILS PROGRAM	M. Woodwoth	Four Years	
initiate a soil conservation program in the district	District #40 ADD Board Elrose District #40	180,250	
SOA-D-0141	G. McLean		45,950
DISTRICT #41 SAVE OUR SOILS PROGRAM	R. Traffird	Four Years	
initiate a soil conservation program in the district	District #41 ADD Board Alida District #41	134,750	
SOA-D-0142	L. Gutek		35,811
DISTRICT #42 SAVE OUR SOILS PROGRAM	D. Peterson	Four Years	
initiate a soil conservation program in the district	District #42 ADD Board Kelvington District #42	97,725	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
SOA-D-0143	G. Ivanochko		36,615
DISTRICT #43 SAVE OUR SOILS PROGRAM	E. Schmidt	Four Years	
initiate a soil conservation program in the district	District #43 ADD Board Drake District #43	94,475	
* ERD-D-0163 3.1-09	J. Buchan	ERDA	13,587
"SAVE OUR SOILS" SOIL CONSERVATION AWARENESS AND DEMONSTRATION PROGRAMS	J. Moen Jim Moen Consulting Ltd.	Two Years 500,000	
reduce soil degradation in the district, increase exposure and awareness of ongoing soil conservation practices among local producers and increase data collection from local projects	Regina		
* ADF-D-0166	D. Tumbach	ADF	15,211
SOIL AND WATER CONSERVATION	D. Tumbach	Four Years	
prevent deterioration in land quality from summerfallowing with tillage implements, try to control the spread of salinity by better water management and use legumes and other forages in the rotation	District #10 Maple Creek District #10	81,850	
* ADF-D-0221	J. Graham	ADF	3,298
SOIL CONSERVATION THROUGH EXTENDED CROPPING	R. Howes	Four Years	
demonstrate extended programs of minimum tillage and no tillage	Ag Extension Board #18 Moose Jaw District #08	83,180	
* ERD-D-0330 3.1-15	B. Kennedy	ERDA	133,292
THIRD YEAR EAST CENTRAL SASKATCHEWAN SOIL CONSERVATION PROJECT	B. Kennedy Hoechst Canada Inc.	One Year 166,615	
evaluate and demonstrate extended crop rotation and conservation tillage under local soil and climatic conditions	Regina		
ADF-D-0380	B. Rapp	ADF	1,407
IMPROVING KNOLL PRODUCTIVITY	D. Sutherland	Six Years	
evaluate the effect of adding straw to increase knoll productivity and conserve soil	D. Sutherland Eston District #17	7,320	
ADF-D-0463	M. Ruzkowski	ADF	226
SOIL DEGRADATION	D. Ehman	One Year	
show saline land can be productive by seeding saline soils to forages, and show proper methods of seeding forage	D. Ehman Farm Davidson District #15	9,814	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0480 EFFECT OF FALLOW TECHNIQUES ON CROP RESIDUE RETENTION obtain the most economial fallow method to preserve maximum soil residue, moisture, and method to control weeds on fallow; determine economic and usefulness of wide blade use in heavy clay soil	J. Graham T. O'Connell Marquis Soil Conservation Coop Marquis District #08	ADF One Year 12,568	1,615
* ADF-D-0509 SOIL CONSERVATION THROUGH TRASH MANAGEMENT demonstrate alternate methods of trash management for soil conservation in the Rural Municipality of Winslow #319	B. Green A. Krahn R.M. of Winslow #319 Kerrobert District #24	ADF One Year 5,500	1,571
* ADF-D-0510 MINIMUM TILLAGE SEEDING FOR SOIL CONSERVATION susceptibility to wind erosion of a minimum tillage seeding system compared to a discer seeding	J. Ippolito District #40 ADD Board District #40 ADD Board Rosetown District #40	ADF One Year 6,056	329
* ADF-D-0515 CHEMFALLOW VS. TRADITIONAL SUMMERFALLOW using chemfallow practices vs traditional summerfallow practices	W. Kehler B. Richards Assiniboia Soil Conservation Coop Assiniboia District #02	ADF One Year 17,834	4,164
* ADF-D-0548 CONSERVATION TILLAGE EVALUATION evaluate the impact of three conservation tillage alternatives at eight locations around Avonlea	J. Graham K. Miller Avonlea Soil Conservation Coop Avonlea District #08	ADF One Year 11,025	3,850
* ADF-D-0557 CRITICAL AREA - EROSION to halt and reclaim a severely wind eroded site	P. Gerwing D. Smith Wheatland Conservation Area Swift Current District #09	ADF One Year 3,990	798
ADF-D-0579 DISTRICT #31 SOIL CONSERVATION PROGRAM promote soil conservation through on-farm demonstrations in the area of chemfallow minimum tillage and field shelterbelt programs	L. Lee O. Craig District #31 ADD Board Nipawin District #31	ADF Two Years 18,536	1,114

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0593 EROSION CONTROL USING INDIAN HEAD LENTILS wind and water erosion control by seeding Indian Head lentils in August	B. Swanson W. Clancy W. Clancy Farm Birch Hills District #32	ADF One Year 585	585
* ADF-D-0595 BARRIER STRIP SEEDING FOR SOIL CONSERVATION demonstrate barrier strip seeding as a means to control soil erosion on fallow and to trap snow	B. Green A. Krahn District 24 ADD Board Stranraer District #24	ADF One Year 600	384
* ADF-D-0608 SOIL CONSERVATION "SOS" PROGRAM continue ongoing soil conservation programs in District #30	L. Klien J. Cooper District #30 ADD Board Unity District #30	ADF One Year 8,900	1,328
* ADF-D-0615 DISTRICT #21 SOIL CONSERVATION PROGRAM increase awareness of soil conservation practices: economically viable in both short and long term, and provide substantial erosion control compatible with operations within the district	N. Janssen District #21 ADD Board District #21 ADD Board Watson District #21	ADF One Year 11,680	11,617
* ADF-D-0664 EAST CENTRAL SASKATCHEWAN SOIL CONSERVATION PROJECT utilize research and demonstration trials to evaluate soil conservation techniques such as extended crop rotations and conservation tillage	B. Kennedy B. Kennedy Hoechst Canada Inc. Regina District #14	ADF One Year 149,100	149,100
SOIL FERTILITY			
* ADF-D-0282 USING INFRARED PHOTOGRAPHY TO ADJUST FERTILIZER APPLICATION demonstrate the use of infrared photos in determining fertilizer application rates in rolling land	J. Ippolito K. Allport K. Allport Farm Kyle District #40	ADF Three Years 2,445	27
* ADF-D-0349 ZERO-TILL FERTILIZER PLACEMENT ON HEAVY CLAYS demonstrate the most efficient means of applying fertilizer to get maximum response on heavy clay soils under zero-till conditions	B. Rapp G. Schwitzer R.M. #259 Crop Club Eston District #17	ADF Two Years 16,860	8,430

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0498	J. Holm	ADF	49,170
BIOLOGICAL ENHANCEMENT	Sask. Assoc. of Ag. Soc. and Exhibition	One Year	
commercial application and benefits of biological agriculture inputs	Sask. Assoc. of Ag. Soc. and Exhibition Saskatoon District #22	69,675	
* ADF-D-0534	B. Rugg	ADF	150
PULSE BANDING LIQUID NITROGEN AS A POST EMERGENT VERSUS TRADI- TIONAL DEEP BANDING OF ANHYDROUS AMMONIA	J. Kretchuk Jerry Kretchuk Farm Elstow	One Year 1,180	
show producers a new way of applying nitrogen with pulse banding	District #22		
* ADF-D-0613	R. Lyke	ADF	1,614
SULPHUR FERTILIZATION EVALUATION	R. Lyke	One Year	
evaluate the response of major grain and oilseeed crops grown in the area to sulphur fertilization	Wolseley Crop Production Club Wolseley District #06	1,880	
* ADF-D-0624	L. Bader	ADF	478
FERTILIZATION FOR COPPER DEFICIENCY	L. Obchansky	One Year	
test for economic response to copper fertilizer on low-testing Shellbrook fine sandy loam	L. Obchansky Blaine Lake District #29	598	
* ADF-D-0652	D. Cubbon	ADF	148
COPPER DEFICIENCY	A. Danilkewich	One Year	
look at copper levels on sandy soils in the area to determine if applied fertilizer would be required	A. Danilkewich Meadow Lake District #36	148	
GROUND WATER			
* ADF-D-0531	J. Holm	ADF	1,759
ARTIFICIAL RECHARGING OF CONFINED AQUIFERS USING GOOD QUALITY SURFACE WATER	J. Holm District #22 ADD Board Saskatoon	One Year 9,680	
store good quality surface water in confined aquifers using artificial recharging method of the University of Saskatchewan	District #22		
LAND IMPROVEMENT			
* ADF-D-0208	H. Nickel	ADF	281
CLOVER PLOWDOWN, BLACK LENTIL PLOWDOWN AND SUMMERFALLOW	S. Jones S. Jones Farm	Three Years 3,426	
determine and compare the results of using sweet clover as green manure with black lentil plowdown	Richard District #34		

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
* ADF-D-0623	L. Bader	ADF	160
INDIAN HEAD LENTIL FOR GREEN MANURE	J. Buswell	One Year	
(PART 2)	Great Bend ADD Committee	200	
complete project #D-88-05-0410 that set out to demonstrate the use of Indian Head lentils as a means of soil conservation	Borden District #29		
SOIL PROBLEMS (ACIDITY, SALINITY)			
* ADF-D-0169	H. Nickel	ADF	115
DEEP RIPPING	B. Nash	One Year	
test the feasibility and benefits of deep ripping soils	B. Nash North Battleford District #34	790	
* ADF-D-0171	H. Nickel	ADF	143
DEEP RIPPING	W. Acaster	One Year	
test the feasibility and benefits of deep ripping soils	Wayne Acaster Farm Ruddell District #34	790	
* ADF-D-0319	D. Perrault	ADF	6,918
DEEP PLOWING OF ORGANIC SOILS	D. Perrault	Four Years	
demonstrate the effect of deep plowing on the productivity of both shallow and deep organic/peat soil	Ag Extension Board #25 Hudson Bay District #25	24,492	
* ADF-D-0374	B. Rapp	ADF	21
DEEP RIPPING SOLONETZIC	K. Sanville	One Year	
evaluate the effect of deep ripping solonetzic soil	Kevin Sanville Farm Smiley District #17	1,383	
* ADF-D-0419	P. Gerwing	ADF	15,033
RHIZOME PLANTING ON SALINE SOIL	D. Smith	Two Years	
plant rhizomitous grass species to control spread of salinity and reclaim present saline areas	Wheatlands Conservation Area Swift Current District #09	67,473	
* ADF-D-0465	L. Gutek	ADF	600
DEEP RIPPING	E. Yablonski	One Year	
evaluate deep ripping on Yorkton clay loam soil to reduce salinity and related tillage problems	E. Yablonski Clair District #42	600	
ADF-D-0597	G. Knobel	ADF	4,400
FORAGE SEEDING DEMONSTRATION	G. Annand	Three Years	
demonstrate that proper seeding equipment and management will greatly increase the successful establishment of forages on erodable and saline land	Mossbank Soil Management Co-op Mossbank District #02	24,800	

Title/Objective/Project Number	Project Manager/ Contractor/Institution	Funding Agency/ Project Length	Funding
ADF-D-0641 RHIZOME PLANTING VS SEEDING OF FORAGES ON SALINE SOILS compare seeding to rhizome planting in establishing plant growth on saline soil	J. Pratt Wheatland Conservation Area Wheatland Conservation Area Swift Current District #09	ADF Three Years 96,151	18,637
SOIL TILLAGE			
* ADF-D-0537 IMPROVING SOIL MOISTURE RETENTION BY SEEDING METHOD improve moisture retention and improved yield with the use of the ConservaPak seeder versus a discer for seeding	D. Simmons D. Burley Dennis Burley Farms Fort Qu'Appelle District #39	ADF One Year 2,020	910
* ADF-D-0539 DIRECT SEEDING DEMONSTRATION adaptability of the ConservaPak drill for direct seeding in the Prince Albert area	B. Swanson R. Goota Norsask Soil Conservation Assoc. Prince Albert District #32	ADF One Year 15,000	3,000
* ADF-D-0574 REDUCED TILLAGE STUDY determine economic benefits of long-term minimum tillage operations on the soil; effects of long-term reduced or non-tillage practices; nutrient levels, organic matter and tilth or structure of soil; compare costs	B. Rapp C. Bews C. Bews Estonia District #17	ADF One Year 600	480
* ADF-D-0580 DIRECT SEEDING DEMONSTRATION demonstrate spring seeding with a minimum soil distribuance system compared to traditional discer seeding and assess the agronomic results of direct seeding compared to more traditional systems	B. Rapp B. Dirk B. Dirk Farm Empress District #17	ADF One Year 2,113	1,325
ADF-D-0627 DEEP RIPPING PROJECT determine if there is an economic advantage of deep ripping certain soils in the Annaheim area	N. Jannsen J. Opfergelt J. Opfergelt Annaheim District #21	ADF One Year 600	480